

## DOCUMENT RESUME

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**AUTHOR** Weaver, Dave, Ed.  
**TITLE** MicroSIFT Courseware Evaluations (169-198). Set 9: Including Subject and Title Indexes Covering Sets 1-9.  
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**ABSTRACT**

This document consists of 30 microcomputer software package evaluations prepared for the MicroSIFT (Microcomputer Software and Information for Teachers) Clearinghouse at the Northwest Regional Educational Laboratory (NWREL). The concise, single-sheet resume describing and evaluating each software package includes source, cost, ability level, subject, topic, medium of transfer, required hardware, required software, instructional purpose, instructional techniques, documentation available, instructional objectives (stated), instructional prerequisites (inferred), content and structure, estimated student time required, potential uses, major strengths, and major weaknesses. (An evaluation summary rates packages on 21 criteria.) The titles of the software packages evaluated are as follows: French Vocabulary Builder (PLATO); Computer Math Activities, Volume 5; Grammar and Writing; Verb Viper; Wordman; Word Invasion; Career Scan IV; Computer Literacy: Introduction (PLATO); Decimals Practice (PLATO); LeVocabulaire Francais; Biology: The Cell; Physics: Elementary Mechanics (PLATO); Tank Tactics; Big Door Deal; Fractions Practice (PLATO); German Vocabulary Builder (PLATO); Pik-Pek-Put; Whole Numbers Practice (PLATO); Personal Graphics; The Factory; Stickybear Numbers; Special Needs, Volume I--Spelling; The Exploring of America Series; Sports Stats; Mind Benders, A3; Spanish Vocabulary Builder (PLATO); Mind Benders, B1; Advertising Techniques; The German and Russian Hangman; and Genetics. (LMM)

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MICROSIFT COURSEWARE EVALUATIONS (169-198). SET 9.

Including Subject and Title Indexes Covering Sets 1-9.

Dave Weaver

Northwest Regional Educational Laboratory

1984.

NOTE: For Courseware Evaluations 1-168 (Sets 1-8),  
see ED 226 765 and ED 234 772.

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TO THE EDUCATIONAL RESOURCES  
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## French Vocabulary Builder (PLATO)

PRODUCER: Control Data Publishing Co.  
P.O. Box 261127  
San Diego, CA 92126

EVALUATION COMPLETED: June 1983 by the staff and constituents of Region IV ISC, Houston, Texas.

COST: \$60.00

ABILITY LEVEL: Grades 7 through postsecondary

SUBJECT: Languages

TOPIC: French, Vocabulary

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: 48K Apple II+, disk drive, TV or monitor. Also available for: Atari 800,

TI 99/4A and IBM-PC

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Remediation, enrichment

INSTRUCTIONAL TECHNIQUES: Drill and practice, game

DOCUMENTATION AVAILABLE: In program — instructional objectives, prerequisite skills or activities, sample program output, program operating instructions, student's instructions. In supplementary materials — instructional objectives, prerequisite skills or activities, program operating instructions, teacher's information, student worksheets, follow-up activities.

INSTRUCTIONAL OBJECTIVES: (STATED) The French activity is intended to provide drill and practice in recognizing and understanding a basic French language vocabulary.

INSTRUCTIONAL PREREQUISITES: (STATED) A basic introductory exposure to French and a review of the vocabulary lists would be helpful to the student prior to using the program. A basic understanding of the French alphabet and the pronunciation and accenting of French words would also be beneficial.

CONTENT AND STRUCTURE: The package consists of two game formats utilizing vocabulary words divided into ten different categories: Basic Words, Personal, Number, Words, Traveling, Useful Verbs, What to Eat, Around Home, Shopping, School Days and Miscellaneous. The student has the option of choosing the category of words, and translation from English to French, French to English, or mixed. The student then selects one of the formats, Pyramid Game, or Hangman. Both formats utilize graphics to provide visual feedback. When the game has been chosen, the student has the option to begin the lesson immediately or review the rules and/or vocabulary list.

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is accurate.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content has educational value.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is free of stereotypes.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purpose of package is well defined.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Package achieves defined purpose.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content presentation is clear and logical.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Difficulty level is appropriate to audience.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Graphics/sound/color are used appropriately.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Use of package is motivational.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Student creativity is effectively stimulated.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feedback is effectively employed.

SA A D SD NA

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learner controls rate and sequence.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Instruction integrates with prior learning.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learning can be generalized.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are comprehensive.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are effective.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Information displays are effective.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Users can operate easily and independently.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Teachers can employ package easily.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Computer capabilities are used appropriately.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or recommend use of this package with little or no change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 4,  
Technical Characteristics - 3.

**French Vocabulary Builder (PLATO), continued**

**ESTIMATED STUDENT TIME REQUIRED:** Each separate game requires 5-10 minutes per game. Two games per vocabulary list would imply 1-1/2 hours per disk.

**POTENTIAL USES:** The package could be used for practice, remediation, or enrichment in first or second year French classes. It is a method of reinforcing vocabulary and correct spelling.

**MAJOR STRENGTHS:** The program provides effective drill and practice in vocabulary from French to English or English to French. Graphics and sound are utilized effectively to provide immediate feedback.

**MAJOR WEAKNESSES:** Teachers do not have an option to create their own vocabulary list for use in the program. Also, the program does not provide a management system to be stored on the disk for retrieval by teacher. Definitions displayed in the Pyramid Game under the key words are difficult to read.

**OTHER COMMENTS:** Support materials are appropriate for each category, but should not be viewed as comprehensive. It might be helpful if the program provided students with a list of words with which they seemed to have difficulty.

# Computer Math Activities, Volume 5

VERSION: Apple

PRODUCER: Addison-Wesley Publishing Co.  
Sand Hill Road  
Menlo Park, CA 94025

EVALUATION COMPLETED: June 1983 at  
University of Portland, Portland, Oregon.

COST: \$15.00

ABILITY LEVEL: Grades 1 through 9

SUBJECT: Mathematics

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: 32K Apple II, single  
disk drive, monitor

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Standard  
instruction, enrichment

INSTRUCTIONAL TECHNIQUES: Drill and  
practice, game

DOCUMENTATION AVAILABLE: In program —  
program operating instructions, teacher's  
information, and student's instructions. In  
supplementary materials — suggested  
grade/ability level(s), instructional objectives,  
prerequisite skills or activities, sample program  
output, program operating instructions, teacher's  
information, resource/reference information,  
student's instructions, and student worksheets.

## INSTRUCTIONAL OBJECTIVES: (STATED)

Objectives are stated in detail in the  
documentation.

## INSTRUCTIONAL PREREQUISITES:

(INFERRED) The student must have obtained the  
skills used in the game to be a successful  
participant.

## CONTENT AND STRUCTURE:

This package is  
made up of five math games: STRATO MATH —  
timed practice adding, subtracting, multiplying,  
or dividing whole numbers, decimals, or integers  
(1-5 players/teams); MATH RING TOSS — timed  
practice adding numbers such as 100, 10, 1, 0.1,  
etc. (1-5 players/teams); EQUATIONS &  
INEQUALITIES — practice generating  
mathematical sentences using equality and  
inequality symbols and addition, subtraction,  
multiplication, and division (1-5 players/teams);  
MATH FACES — practice selecting the correct  
operation symbol in computation and word  
problems and solving word problems (1-5  
players/teams); and NAME THAT  
NUMBER-FRACTION-SHAPE — practice in  
basic number facts using addition, subtraction,  
multiplication, or division, in identifying  
polygons, or the meaning of fractions (1-5  
players/teams).

Continued on back

## EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
•					Content presentation is clear and logical.
•	•				Difficulty level is appropriate to audience.
•					Graphics/sound/color are used appropriately.
•					Use of package is motivational.
			•		Student creativity is effectively stimulated.
•					Feedback is effectively employed.

SA A D SD NA

•					Learner controls rate and sequence.
•					Instruction integrates with prior learning.
•					Learning can be generalized.
•					User support materials are comprehensive.
•					User support materials are effective.
•					Information displays are effective.
			•		Users can operate easily and independently.
		•			Teachers can employ package easily.
•					Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this program with little or no  
change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 3,  
Technical Characteristics - 4.

**Computer Math Activities, Volume 5 continued**

**ESTIMATED STUDENT TIME REQUIRED:**

Students in grades 4-9 could become familiar with this package if 20 minutes of time on the computer were allowed each day. Students in grades 2-3 would need much teacher involvement. If the game was set up for the student, then it would be possible for the student to play the game independently.

**POTENTIAL USES:** This package would be used as drill and practice after particular math skills had been introduced. The material could also be used as a remediation tool for basic math skills because of the motivating nature of the games. Enrichment is another possible use of this package due to the many levels that each game offers.

**MAJOR STRENGTHS:** This program offers much variety in the activities offered to practice basic skills. It also provides three or four levels of difficulty for each activity. The operator has many options when choosing the rate and sequence of the material as well as the option to return to directions if needed.

**MAJOR WEAKNESSES:** At times the reading level was way beyond the content level of the math activity. Classroom teachers at the primary level would have to spend much time either teaching the students how to enter information to play the games or they would have to set up the computer to a particular game for each student or group of students. The reading level of remedial intermediate students might make it difficult for them to use the program independently. The variety of activities offered might prove confusing to students trying to select the correct program.

**OTHER COMMENTS:** At times the games went very slowly. One activity (Strato Math) had very little practice (one problem) before the motivational game was rewarded.



## Grammar and Writing

**PRODUCER:** Encyclopedia Britannica  
Education Corporation  
425 North Michigan Avenue  
Chicago, IL 60611

**EVALUATION COMPLETED:** October 1983 by  
the staff and constituents of the Alaska  
Department of Education, Juneau, Alaska.

**COST:** \$229.00

**ABILITY LEVEL:** Grades 4 and 5  
**SUBJECT:** Language Arts  
**TOPIC:** Grammar, Writing  
**MEDIUM OF TRANSFER:** 5-1/4 in. disk  
**REQUIRED HARDWARE:** 48K Apple II, single  
disk drive, monitor  
**REQUIRED SOFTWARE:** Applesoft, DOS 3.3  
**INSTRUCTIONAL PURPOSE:** Standard instruction  
**INSTRUCTIONAL TECHNIQUES:** Drill and  
practice, tutorial

**DOCUMENTATION AVAILABLE:** In program —  
program operating instructions and student's  
instructions. In supplementary materials —  
suggested grade/ability level(s), instructional  
objectives, prerequisite skills or activities,  
sample program output, program operating  
instructions, teacher's information,  
resource/reference information, student  
worksheets, and follow-up activities.

**INSTRUCTIONAL OBJECTIVES: (STATED)** To  
reinforce grammatical skills and improve writing  
ability.

**INSTRUCTIONAL PREREQUISITES: (STATED)**  
Students should be familiar with the eight parts  
of speech.

**CONTENT AND STRUCTURE:** The Grammar  
and Writing Series is composed of the following  
four diskettes: 1) Parts of Speech — instructs  
students to deal more effectively with parts of  
speech in a writing context. 2) Sentence Patterns  
— provides an understanding of English patterns  
by developing sentences to match given patterns.  
3) Usage — reinforces awareness of common  
grammatical usage in writing context. 4) Paragraphs — instructs ways to edit and refine  
paragraphs. Each disk is organized to instruct,  
reinforce, and evaluate the various skills by  
providing individualized instruction and practice  
exercises. The series uses an "exploration" theme  
to generate interest and provide educational  
content. The package provides a way for  
definitions of terms to be available to the student  
upon request. A summary of the students'  
performance is generated at the end of each  
lesson and a record sheet is provided in the manual.

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

•				Content is accurate.
•				Content has educational value.
•				Content is free of stereotypes.
•				Purpose of package is well defined.
•				Package achieves defined purpose.
•				Content presentation is clear and logical.
•				Difficulty level is appropriate to audience.
•				Graphics/sound/color are used appropriately.
•				Use of package is motivational.
•				Students' creativity is effectively stimulated.
•				Feedback is effectively employed.

SA A D SD NA

•				Learner controls rate and sequence.
•				Instruction integrates with prior learning.
•				Learning can be generalized.
•				User support materials are comprehensive.
•				User support materials are effective.
•				Information displays are effective.
•				Users can operate easily and independently.
•				Teachers can employ package easily.
•				Computer capabilities are used appropriately.
•				Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package only if certain  
changes were made.

**Summary:** Scale from 1 (Low) to 5 (High).  
Content - 3, Instructional Characteristics - 3,  
Technical Characteristics - 4.

## Grammar and Writing, continued

**ESTIMATED STUDENT TIME REQUIRED:** A student would require 9 to 12 weeks, 2 or 3 sessions per week, to complete all the activities. Each activity is about 15 minutes.

**POTENTIAL USES:** The courseware introduces specific grammar and writing skills and proceeds to provide drill in the skill being presented. Content includes parts of speech, sentences, usage and paragraphs. The programs provide an opportunity for either the independent worker or a class of computer users to develop language skills by making grammatical and stylistic choices.

**MAJOR STRENGTHS:** The programs cover important skills. It is easy to use. The presentation is clear. Submenus are included in each major activity area allowing the student a range of choices.

**MAJOR WEAKNESSES:** Answers which are grammatically correct but nonsensical are accepted as correct. This introduces amusing sidelights, but can be distracting to students.

**OTHER COMMENTS:** One activity incorrectly has an explorer encountering a tiger near the Niger river. (There are no wild tigers in Africa.) This courseware package has potential as a supplemental source of grammar skills activities.



## Verb Viper

**PRODUCER:** DLM, Inc.  
One DLM Park  
Allen, Texas 75002

**EVALUATION COMPLETED:** July, 1983 by the staff and constituents of Montgomery County Public Schools, Maryland.

**COST:** \$44.00

**ABILITY LEVEL:** Grades 3 through 6

**SUBJECT:** Language Arts

**TOPIC:** Parts of Speech

**MEDIUM OF TRANSFER:** 5-1/4 in. disk

**REQUIRED HARDWARE:** 48K Apple II+/Ile, single disk drive, monitor (color recommended)

**REQUIRED SOFTWARE:** Applesoft, DOS 3.2 or 3.3

**INSTRUCTIONAL PURPOSE:** Standard instruction, enrichment

**INSTRUCTIONAL TECHNIQUES:** Drill and practice, game

**DOCUMENTATION AVAILABLE:** In supplementary materials — instructional objectives, sample program output, program operating instructions, teacher's information, student's instructions, student worksheets, and follow-up activities

**INSTRUCTIONAL OBJECTIVES:** (STATED) To provide drill and practice in recognizing the proper use of various verbs in context.

**CONTENT AND STRUCTURE:** Verb Viper provides the player with practice in selecting the correct verb for specific subjects that appear on the screen. The game provides practice in selecting singular and plural forms of the "to be" verbs (am, is, are, was, were) and the verb "have" (has, have); singular and plural forms of the present tense action verbs; forms of regular and irregular past tense verbs; and past participles with auxiliary verbs. A friendly creature with a surprisingly elastic neck, Verb Viper feeds on verbs emerging from a cluster of caves. A subject appears below him and verbs move from a cave toward the Viper. The player must select the correct verbs for the specific subjects to feed the Verb Viper. When the Verb Viper eats five correct verbs, his neck will extend to the next cave for more verbs. Each cave is closer to Verb Viper so the verbs reach his tongue faster with each successive cave. If a player feeds the Verb Viper too many incorrect verbs or misses feeding him too many correct verbs, he will lower his neck to the cave below. If this happens at the bottom cave, the game resets. If it resets three times, the game is over.

**ESTIMATED STUDENT TIME REQUIRED:** 10-15 minutes per day, several times a week

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

	•				Content is accurate.
	•				Content has educational value.
			•		Content is free of stereotypes.
	•				Purpose of package is well defined.
	•				Package achieves defined purpose.
	•				Content presentation is clear and logical.
	•				Difficulty level is appropriate to audience.
•					Graphics/sound/color are used appropriately.
•					Use of package is motivational.
			•		Student creativity is effectively stimulated.
	•				Feedback is effectively employed.

SA A D SD NA

	•				Learner controls rate and sequence.
	•				Instruction integrates with prior learning.
	•				Learning can be generalized.
	•				User support materials are comprehensive.
		•			User support materials are effective.
	•				Information displays are effective.
	•				Users can operate easily and independently.
	•				Teachers can employ package easily.
•					Computer capabilities are used appropriately.
	•				Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or recommend use of this package with little or no change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 3,  
Technical Characteristics - 4.

Verb Viper, continued

**POTENTIAL USES:** This package can be used in language arts classes with small groups (pairs) or individuals for drill and practice on subject/verb agreement.

**MAJOR STRENGTHS:** This program provides for individualization as follows: 1) nine different playing speeds; 2) game content; 3) difficulty of content — reading and vocabulary levels range from grade 1 to grade 4; 4) time per game — 1 to 5 minutes; 5) optional use of either paddle or keyboard control; and 6) with or without sound effects. The game is motivating and encourages active use. The documentation is thorough, although somewhat overdone.

**MAJOR WEAKNESSES:** Content — The package includes some non-words as seemingly valid choices (i.e., headed, layed). Presentation — In many instances, the subject and verb are given in isolation rather than in the context of a complete sentence. Graphics and Sound — The margin of visual error is small causing the student to miss and be penalized for failure to hit the space bar in time. Sound is almost essential to the game and can be a classroom problem. Student Feedback — The program does not give adequate feedback to the students or teacher. Feedback given is only a tally of "hits" and "misses", and ways and means of remediating errors are lacking. In some versions of the game, not hitting the space bar at all gives more hits than misses! (i.e., user wins by doing nothing). The program records 81 hits and 11 misses as a higher score than 81 hits and 2 misses. Supplementary Materials — The student support materials are workbook type. Student Use — The student will need explanation and demonstration before playing the game.

**OTHER COMMENTS:** This program appears to be a good home substitute for or complement to the recreational arcade-type games.

## Wordman

**PRODUCER:** DLM, Inc.  
One DLM Park  
Allen, Texas 75002

**EVALUATION COMPLETED:** June 1983 by the staff and constituents of Montgomery County Public Schools, Maryland.

**COST:** \$44.00

**ABILITY LEVEL:** Grades 1 through 6

**SUBJECT:** Language Arts

**TOPIC:** Vocabulary

**MEDIUM OF TRANSFER:** 5-1/4 in. disk

**REQUIRED HARDWARE:** Apple II+/Ile, disk drive, monitor (color recommended)

**REQUIRED SOFTWARE:** Applesoft, DOS 3.2 or 3.3

**INSTRUCTIONAL PURPOSE:** Standard instruction, enrichment

**INSTRUCTIONAL TECHNIQUES:** Drill and practice, game

**DOCUMENTATION AVAILABLE:** In supplementary materials — instructional objectives, sample program output, program operating instructions, teacher's information, student's instructions, student worksheets, and follow-up activities.

**INSTRUCTIONAL OBJECTIVES: (STATED)** To provide drill and practice in basic phonetic

patterns associated with short and long vowel sounds in a word.

**CONTENT AND STRUCTURE:** The game screen is a series of alternating rectangular tracks and rows. The tracks are passageways for an moving initial consonant that can be used as the beginning letter of words formed with the groups of letters in the rows. The groups of letters are placed in windows in the rows. As the letter moves past a group of letters, the player must determine if it would form a word if added as the initial consonant. If so, the player fires the space bar, forms the word, and a hit will be recorded. If it will not form a word, the player allows the letter to pass by the window, the letters are crossed out, and a hit is recorded. Misses will be recorded if the player passes by a window that would form a word or fires at a window whose letters would not make a word. The traveling letter changes often. The entire maze must be completed correctly before the expanding border of orange reaches the track where the letter is traveling. If this happens, the maze will dissolve and the game will reset. If this occurs three times during a game, the game is immediately over.

**ESTIMATED STUDENT TIME REQUIRED:** 10-15 minutes per day, several times a week

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### EVALUATION SUMMARY

SA A D SD NA

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is accurate.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content has educational value.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Content is free of stereotypes.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purpose of package is well defined.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Package achieves defined purpose.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content presentation is clear and logical.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Difficulty level is appropriate to audience.
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Feedback is effectively employed.

SA A D SD NA

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learner controls rate and sequence.
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Computer capabilities are used appropriately.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or recommend use of this package with little or no change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 3,  
Technical Characteristics - 4.

Wordman, continued

**POTENTIAL USES:** This package is good for practicing phonetic patterns with small groups or individuals in language arts or reading classes. Practice with speedy word recognition in a game setting is more appropriate for home and recreation than the classroom and instruction.

**MAJOR STRENGTHS:** The difficulty level, speed and time can be controlled by the teacher. Colorful graphics, fast action, and Pac-Man arcade game format are highly motivational and a fun approach to learning. Accompanying manual gives an overview, purpose and goals of the program as well as providing persons working in the school setting with information and directions for using the program with students. It contains 21 worksheets, student record sheet, progress charts, and a "Strategies for Improvement" log which can be easily duplicated. No typing skills are required to use this program since it can be played using either game paddles, joysticks or the keyboard.

**MAJOR WEAKNESSES:** Content - The package contains some little used words, e.g., mace, gape, sage, keg. The meaning of the words are immaterial to the user's success in the game. There is no provision for customizing the program by adding your own words to the problem list. Graphics - the small size of the character set makes it difficult to distinguish between certain letters, e.g., G/C, D/O, W/H. Feedback - The major weakness of the program is that it gives poor feedback to students and teachers. The program should let the user know what combinations were missed and what practice is needed, instead of just giving a score of hits and misses. Support materials - The student support materials are workbook type and are not very creative. Student use - The student will need an explanation and demonstration before playing the game. The program can be very frustrating when the circling letter cannot be used to complete a word with any of the remaining letters. Success depends on a high level of word recognition skills.

**OTHER COMMENTS:** An excellent word game for the home to compete with the arcade-type recreational games.

## Word Invasion

VERSION: Apple

PRODUCER: DLM, Inc.  
One DLM Park  
Allen, Texas 75002

EVALUATION COMPLETED: September 1983 by the staff and constituents of Montgomery County School District, Maryland.

COST: \$44.00

ABILITY LEVEL: Grades 5 through 8

SUBJECT: Language Arts

TOPIC: Vocabulary

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: 48K Apple II+/IIe, single disk drive, monitor (color recommended)

REQUIRED SOFTWARE: Applesoft, DOS 3.2 or 3.3

INSTRUCTIONAL PURPOSE: Standard instruction, enrichment

INSTRUCTIONAL TECHNIQUES: Drill and practice, game

INSTRUCTIONAL OBJECTIVES: (STATED) To provide drill and practice in recognizing the parts of speech.

INSTRUCTIONAL PREREQUISITES: (INFERRED) The student must have prior instruction in recognizing the parts of speech.

CONTENT AND STRUCTURE: Word Invasion provides the player with practice in identifying words which represent the six major parts of speech: nouns, pronouns, verbs, adverbs, adjectives, and prepositions. A friendly alien, A.O. (Alien Octopus) appears at the bottom of the screen. She protects her underwater territory from a screen full of invading words with a magic ring. The magic ring can be moved from arm to arm by the player to aim and fire at approaching words. The player must match the appropriate word with the part of speech that appears below A.O. If a word reaches her arm before it is fired down, she must lower four arms to recover before the game continues. If this happens three times during play, the game is immediately over.

ESTIMATED STUDENT TIME REQUIRED: 10-15 minutes per day

DOCUMENTATION AVAILABLE: In supplementary materials — instructional objectives, sample program output, program operating instructions, teacher's information, student's instructions, student worksheets, and follow-up activities.

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is accurate.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content has educational value.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is free of stereotypes.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purpose of package is well defined.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Package achieves defined purpose.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content presentation is clear and logical.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Difficulty level is appropriate to audience.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Graphics/sound/color are used appropriately.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Use of package is motivational.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Student creativity is effectively stimulated.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feedback is effectively employed.

SA A D SD NA

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learner controls rate and sequence.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Instruction integrates with prior learning.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learning can be generalized.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are comprehensive.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are effective.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Information displays are effective.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Users can operate easily and independently.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Teachers can employ package easily.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Computer capabilities are used appropriately.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or recommend use of this package with little or no change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 3,  
Technical Characteristics - 4.



Word Invasion, continued

**POTENTIAL USES:** This program is good for use in Language Arts to provide drill and practice for small groups or individuals with the major parts of speech.

**MAJOR STRENGTHS:** The teacher can control the level of difficulty, parts of speech to be used, and speed of the program. The game is very motivating and provides active participation on the part of the player. The program content is accurate. It is reliable and easy for the students to use. This is a good use of the computer to provide drill and practice with the major parts of speech.

**MAJOR WEAKNESSES:** The package teaches the parts of speech out of context; this is instructionally unsound. The major weakness of this program is that it gives poor feedback to the student and teacher. There should be some way to find out which parts of speech were consistently missed and need practice instead of just the number of hits and misses. The student support materials are workbook type only. The student will need an explanation and demonstration before playing the game.

**OTHER COMMENTS:** This package does not reflect the approach to language learning promoted by the Montgomery County Public Schools Revised Curriculum in Reading/Language Arts (evaluating agency).



## Career Scan IV

VERSION: 1982

PRODUCER: National Educational Software  
1879 Locust Drive, Dept. CPR  
Verona, WI 53593

EVALUATION COMPLETED: June 1983 by the  
staff and constituents of Region IV ISC, Houston,  
Texas.

COST: \$169.00

ABILITY LEVEL: Grades 6 through postsecondary  
SUBJECT: Vocational Education  
TOPIC: Career education, Career guidance  
MEDIUM OF TRANSFER: 5-1/4 in. disk  
REQUIRED HARDWARE: Apple II+, one or two  
disk drives, monitor, printer (optional)  
REQUIRED SOFTWARE: Applesoft, DOS 3.3  
INSTRUCTIONAL PURPOSE: Assessment  
INSTRUCTIONAL TECHNIQUES: Information  
retrieval, career guidance

DOCUMENTATION AVAILABLE: In program —  
program operating instructions,  
resource/reference information, student's  
instructions, textbook correlation (career  
information), follow-up activities. In  
supplementary materials — suggested  
grade/ability level(s), instructional objectives,  
prerequisite skills or activities, program operating  
instructions, teacher's information, textbook

correlation (career information), follow-up  
activities.

INSTRUCTIONAL OBJECTIVES: (STATED) To  
help the user find an occupation related to  
personal interests, values and aspirations; to  
motivate users to seek additional information  
about such occupations; to motivate users to  
reexamine their interests and to see how these  
interests might affect occupations; to encourage  
users to seek career guidance from professionals.

INSTRUCTIONAL PREREQUISITES: (STATED)  
Sixth grade reading level (interest level — sixth  
grade through college)

CONTENT AND STRUCTURE: In preparation  
for the occupational search, the user first  
answers questions concerning personal interests  
and then rates the importance of these answers.  
These answers are then matched to occupational  
groups by the computer which produces a list.  
The user next chooses one or more occupational  
groups from the list and occupational title lists  
are produced for each occupational group. The  
user then has the option to request job  
descriptions for each occupational title listed.  
Following this, various alternatives exist such as  
listing interest choices or occupations or  
conducting another search. Reference  
information on the occupational titles located in

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is accurate.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content has educational value.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is free of stereotypes.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purpose of package is well defined.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Package achieves defined purpose.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content presentation is clear and logical.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Difficulty level is appropriate to audience.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Graphics/sound/color are used appropriately.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Use of package is motivational.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Student creativity is effectively stimulated.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feedback is effectively employed.

SA A D SD NA

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learner controls rate and sequence.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Instruction integrates with prior learning.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Learning can be generalized.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	User support materials are comprehensive.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	User support materials are effective.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Information displays are effective.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Users can operate easily and independently.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Teachers can employ package easily.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Computer capabilities are used appropriately.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package with little or no  
change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 4,  
Technical Characteristics - 4.

Career Scan IV, continued

the search may also be displayed. At the completion of a search, the user is advised to seek assistance from a counselor to better understand the results. The instructions for each step of the search appear on the screen.

ESTIMATED STUDENT TIME REQUIRED: 30-45 minutes needed for each session:

POTENTIAL USES: The program would best be used by a teacher who was willing to integrate career guidance into his/her curriculum or by the counselor on an individual basis.

MAJOR STRENGTHS: The instructions are clear and easy to follow. As the program progresses, the user is allowed to revise choices. The program achieves the stated objectives. This program really causes students to think about personal values and gives them an opportunity to prioritize choices.

MAJOR WEAKNESSES: One evaluator could not get this program to work with the Epson MX80FT printer; no instructions on how to interface with various printers were given. Portions of the job descriptions become repetitive thus probably increasing the chance for boredom.

OTHER COMMENTS: After the user answers a question, something similar to "Your answer was \_\_\_\_\_. Is this correct Y/N?" appears on the screen. While verifying correct responses may be desirable for some students, it becomes bothersome for others.

# Computer Literacy: Introduction (PLATO)

VERSION: 1983

PRODUCER: Control Data Publishing Co.  
P.O. Box 261127  
San Diego, CA 92126

EVALUATION COMPLETED: June 1983 by the staff and constituents of Region IV ISC, Houston, Texas.

COST: \$60.00

ABILITY LEVEL: Grade 6 through postsecondary  
SUBJECT: Computer Science  
TOPIC: Computer Literacy  
MEDIUM OF TRANSFER: 5-1/4 in. disk  
REQUIRED HARDWARE: 48K Apple II+, disk drive, monitor. Also available for: Atari 800, TI 99/4A, and IBM-PC.  
REQUIRED SOFTWARE: Applesoft, DOS 3.3  
INSTRUCTIONAL PURPOSE: Standard instruction  
INSTRUCTIONAL TECHNIQUES: Tutorial

DOCUMENTATION AVAILABLE: In program — instructional objectives, program operating instructions, student's instructions. In supplementary materials — suggested grade/ability level(s), instructional objectives, prerequisite skills or activities, program operating instructions, teacher's information, resource/reference information, student worksheets, follow-up activities.

INSTRUCTIONAL OBJECTIVES: (STATED) This package is designed to provide students with basic information about computers in our society by providing information on the history and uses of computers and on their impact on business and society.

INSTRUCTIONAL PREREQUISITES: (STATED) No prior knowledge of computers is necessary. The package is designed for junior and senior high school students.

CONTENT AND STRUCTURE: This educational software package contains six sections which include instructional text, animated examples, and interactive activities. The support manual provides a supplement to the computer-based activity through a description of the objectives and features of each section, teaching strategies, and student materials. Objectives are clearly stated for each section. The user has control over the progression of lessons and options available within the program. The student is first introduced to the lesson then guided through the activities. Each lesson builds on the previous lesson. Feedback is immediate and appropriate for the intended audience. The computer keeps track of the lessons completed.

ESTIMATED STUDENT TIME REQUIRED: 15-30 minutes computer time per section. For support activities 30-45 minutes could be used as a

Continued on back

## EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
•					Content presentation is clear and logical.
•					Difficulty level is appropriate to audience.
•					Graphics/sound/color are used appropriately.
•					Use of package is motivational.
	•				Student creativity is effectively stimulated.
	•				Feedback is effectively employed.

SA A D SD NA

	•				Learner controls rate and sequence.
	•				Instruction integrates with prior learning.
•					Learning can be generalized.
•					User support materials are comprehensive.
•					User support materials are effective.
•					Information displays are effective.
•					Users can operate easily and independently.
•					Teachers can employ package easily.
•					Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would highly recommend this package.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 5, Instructional Characteristics - 5,  
Technical Characteristics - 5.

**Computer Literacy: Introduction (PLATO), continued**

follow-up for each section, depending on the teacher.

**POTENTIAL USES:** This package could be used effectively for independent learning or for a small group activity. The lessons are applicable in any course where students need to learn about computers. In addition, the package is ideally suited as an introduction to computers for teachers or administrators. This program also might be good for older special education learning disabled students with additional teacher preparation.

**MAJOR STRENGTHS:** The objectives are clearly defined. The instructions appear to students on the screen and are clearly stated. Immediate and appropriate feedback is used. Animated graphics and visual stimulation are effectively employed in this package. The information is presented in a clear and logical fashion.

**MAJOR WEAKNESSES:** None cited.

## Decimals Practice (PLATO)

PRODUCER: Control Data Publishing Co.  
P.O. Box 261127  
San Diego, CA 92126

EVALUATION COMPLETED: June 1983 by the staff and constituents of Region IV ISC, Houston, Texas.

COST: \$60.00

ABILITY LEVEL: Grades 4 through 9

SUBJECT: Mathematics

TOPIC: Arithmetic, Decimals

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: 48K Apple II+, disk drive, TV or monitor. Also available for: Atari 800, TI 99/4A, and IBM-PC.

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Enrichment, standard instruction

INSTRUCTIONAL TECHNIQUES: Drill and practice, game

DOCUMENTATION AVAILABLE: In program — instructional objectives, program operating instructions, student's instructions. In supplementary materials — instructional objectives, prerequisite skills or activities, program operating instructions, teacher's information, students instructions, student worksheets, follow-up activities.

INSTRUCTIONAL OBJECTIVES: (STATED) To help students improve their decimal differentiation and identification skills. To provide practice in visually determining decimal fractions. To help familiarize students with decimal fraction concepts.

INSTRUCTIONAL PREREQUISITES: (STATED) Students need to have basic decimal comprehension, the ability to follow the instructions in the lesson and the knowledge of using the micromputer.

CONTENT AND STRUCTURE: The package contains one disk, a back-up disk and a manual. The disk contains one game which has two parts and a review lesson called "Check Up." Students can choose to play the "Darts Game" or to take the "Darts Check Up." Levels exist within each part of the game. The format is an animated dart game designed to motivate student practice in identifying decimal fractions of progressive levels of difficulty in the tenths and hundredths place. A student breaks balloons on a vertical number line by estimating the decimal locations of balloons between given numbers.

ESTIMATED STUDENT TIME REQUIRED: 15-30 minutes per day

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

					Content is accurate.
					Content has educational value.
					Content is free of stereotypes.
					Purpose of package is well defined.
					Package achieves defined purpose.
					Content presentation is clear and logical.
					Difficulty level is appropriate to audience.
					Graphics/sound/color are used appropriately.
					Use of package is motivational.
					Student creativity is effectively stimulated.
					Feedback is effectively employed.

SA A D SD NA

					Learner controls rate and sequence.
					Instruction integrates with prior learning.
					Learning can be generalized.
					User support materials are comprehensive.
					User support materials are effective.
					Information displays are effective.
					Users can operate easily and independently.
					Teachers can employ package easily.
					Computer capabilities are used appropriately.
					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would not use or recommend this package. (Note reasons under Weaknesses).

Summary: Scale from 1 (Low) to 5 (High).  
Content - 3, Instructional Characteristics - 3,  
Technical Characteristics - 2.

## Decimals Practice, continued

**POTENTIAL USES:** This game may be utilized by students to practice writing decimal numbers, estimating decimal values and identifying decimal intervals along a number line, once they have been exposed to these concepts in a regular classroom setting.

**MAJOR STRENGTHS:** The programs make effective use of color graphics and sound. They provide immediate feedback for student responses, and strengthen place value concepts. Due to the structure of the programs, incorrect responses become "hiccups" for determining correct responses. While help is given upon request, a built-in system prevents a student from advancing to the next level if he/she asks for help. This feature prevents floundering students from becoming hopelessly "stuck" at a certain point and then moving haphazardly through higher levels within the program.

**MAJOR WEAKNESSES:** It is possible to complete the game successfully by guessing. Too many concepts are presented at once. Experiencing relative values in the tenths and hundredths place in 30 minutes is confusing to average and slow learners. It is possible to be rewarded without being accurate. Being off by 0.1 may result in a balloon breaking and the game advancing. Only one lesson format is utilized and may tend to rather quickly become boring. When a dart is sent to a location very close to a previously identified location, the numerals are written over the old numerals, making it difficult to read the location.

**OTHER COMMENTS:** The game format could be improved by placing the number line in a horizontal position near the top of the frame. It is easier to estimate decimal parts on a horizontal number line.



## LeVocabulaire Francais

VERSION: Apple

PRODUCER: Island Software  
Box 300  
Lake Grove, NY 11755

EVALUATION COMPLETED: May, 1983 by the staff and constituents of Connecticut Department of Education, Hartford, Connecticut, and Multnomah County ESD, Portland, Oregon.

COST: \$25.00

ABILITY LEVEL: Grades 7 through 12  
SUBJECT: Foreign Languages  
TOPIC: French  
MEDIUM OF TRANSFER: 5-1/4 in. flexible disk  
REQUIRED HARDWARE: 48K Apple II, single disk drive, monitor  
REQUIRED SOFTWARE: Applesoft, DOS 3.3  
INSTRUCTIONAL PURPOSE: Standard instruction, enrichment  
INSTRUCTIONAL TECHNIQUES: Drill and practice

DOCUMENTATION AVAILABLE: In program — program operating instruction and student's instructions. In supplementary materials — instructional objectives, program operating instructions, and teacher's information.

INSTRUCTIONAL OBJECTIVES: (STATED) To provide drill and practice in translating between English and French words.

INSTRUCTIONAL PREREQUISITES: (INFERRED) The student must have prior instruction on the French words in the list used in the program.

CONTENT AND STRUCTURE: This package contains four drill and practice programs on translating between English and French. Program 1 covers approximately 200 nouns, program 2 covers approximately 175 verbs, and program 3 covers approximately 75 numbers, colors and other useful words. Program 4 allows the teacher to create exercises. All of the programs employ large size lower-case alphabet for the French words and standard size upper-case alphabet for the English words. Accent marks (cedilla, acute, grave, etc.) are also used and can be typed from the keyboard.

ESTIMATED STUDENT TIME REQUIRED: Fifteen to twenty minutes per sitting; at least four sittings.

POTENTIAL USES: This package is appropriate for use with individual students or small groups of students for drill and practice. It could also be

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

		•			Content is accurate.
			•		Content has educational value.
	•				Content is free of stereotypes.
	•				Purpose of package is well defined.
	•				Package achieves defined purpose.
		•			Content presentation is clear and logical.
		•			Difficulty level is appropriate to audience.
	•				Graphics/sound/color are used appropriately.
		•			Use of package is motivational.
			•		Student creativity is effectively stimulated.
		•			Feedback is effectively employed.

SA A D SD NA

	•				Learner controls rate and sequence.
		•			Instruction integrates with prior learning.
		•			Learning can be generalized.
		•			User support materials are comprehensive.
	•				User support materials are effective.
	•				Information displays are effective.
	•				Users can operate easily and independently.
	•				Teachers can employ package easily.
		•			Computer capabilities are used appropriately.
	•				Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or recommend use of this package only if certain changes were made.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 2, Instructional Characteristics - 2,  
Technical Characteristics - 3.

This evaluation is based on the evaluations of three or more reviewers who are representative of potential users of the courseware package.

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LeVocabulaire Francais, continded

used to increase writing vocabulary.

**MAJOR STRENGTHS:** Accents are included as part of the spelling of the foreign words. This is not true in some of the other software in existence. Words are not counted as correct unless the accents are included when responding in the foreign language.

**MAJOR WEAKNESSES:** The program does not accept synonyms or acceptable variations in language. The "right answer" is so narrowly defined that alternatives which should be acceptable are called "wrong." The list of vocabulary items displayed does not include accent marks. Although it is so indicated in the display, that does not make it correct. Although the program selects the words randomly, some words occur more often than others.

**OTHER COMMENTS:** Translation is a poor language learning activity. It is a skill which should be taught for specific purposes at very advanced levels only. This material is designed for less advanced students.

## Biology: The Cell

PRODUCER: Encyclopedia Britannica  
Educational Corporation  
425 North Michigan Avenue  
Chicago, IL 60611

EVALUATION COMPLETED: June 1983 by the  
staff and constituents of Linn-Benton ESD,  
Albany, Oregon.

COST: \$125.00

ABILITY LEVEL: Grades 10 through 12  
SUBJECT: Sciences  
TOPIC: Biology  
MEDIUM OF TRANSFER: 5-1/4 in. disk  
REQUIRED HARDWARE: Apple II, 48K, single  
disk drive, monitor  
REQUIRED SOFTWARE: Applesoft, DOS 3.3  
INSTRUCTIONAL PURPOSE: Remediation,  
standard instruction, assessment  
INSTRUCTIONAL TECHNIQUES: Drill and  
practice, tutorial

DOCUMENTATION AVAILABLE: In program —  
post-test and student's instructions. In  
supplementary materials — instructional  
objectives, program operating instructions,  
teacher's information and student worksheets.

INSTRUCTIONAL OBJECTIVES: (STATED) To  
develop skills in the areas of cell biology, cell

organization, the structure and function of  
organelles, macromolecules of the cell, and  
viruses.

INSTRUCTIONAL PREREQUISITES:  
(INFERRED) Lessons are presented sequentially  
and completion of one is the prerequisite for the  
next.

CONTENT AND STRUCTURE: Two disks. Disk  
1 is the tutorial. It is menu-directed and  
includes: a simple explanation of cell theory; a  
description of viruses that includes illustration of  
the lytic and lysogenic cycles with moving  
graphics; a discussion of cell size and the  
relationship of volume to surface area; an  
introduction to the eucaryotic cell, both plant  
and animal, and to the procaryotic cell; and a  
detailed description of organelles found in these  
cells, illustrated by a large cell diagram with a  
moving index as a menu. Disk 2 is the glossary  
and drill. It is divided into two sections: a  
glossary that provides definitions and a review of  
terms used in the tutorial disk; and three  
menu-directed, self-test series comprised of  
multiple-choice, fill-in, and column-matching  
exercises. There are two distinct scoring  
systems: instant score where the student is  
immediately told whether an answer is right or  
wrong, and total scores where, as in a classroom  
quiz, the cumulative score is given after the quiz

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

•				Content is accurate.
•				Content has educational value.
•				Content is free of stereotypes.
•				Purpose of package is well defined.
•				Package achieves defined purpose.
•				Content presentation is clear and logical.
•				Difficulty level is appropriate to audience.
•				Graphics/sound/color are used appropriately.
•				Use of package is motivational.
•				Student creativity is effectively stimulated.
•				Feedback is effectively employed.

SA A D SD NA

•				Learner controls rate and sequence.
•				Instruction integrates with prior learning.
•				Learning can be generalized.
•				User support materials are comprehensive.
•				User support materials are effective.
•				Information displays are effective.
•				Users can operate easily and independently.
•				Teachers can employ package easily.
•				Computer capabilities are used appropriately.
•				Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package with little or no  
change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4; Instructional Characteristics - 3;  
Technical Characteristics - 4.

**Biology: The Cell, continued**

is completed. In all three self-test series and in both scoring methods, students may request correct answers.

**ESTIMATED STUDENT TIME REQUIRED:** 30 to 60 minutes per diskette to finish the entire tutorial, however, the materials can be broken down into shorter (10 minutes +/-) sections by the use of the menu.

**POTENTIAL USES:** This package is appropriate for use with individual or small groups of students for review of, or introduction to, topics relating to cells.

**MAJOR STRENGTHS:** The evaluators judged the content and graphical diagrams to be highly accurate. The information presented in the tutorial explained the process well and used the appropriate sequence of concepts. The quizzes covered the material well and provided the user with options which include a variety of question types. The use of menus provides the flexibility for the package to be used in a variety of situations. A glossary is included which familiarizes the student with the terms used in the tutorial.

**MAJOR WEAKNESSES:** The evaluators indicated the user support material was "minimal". There is no pre-test, follow-up activities, textbook correlations, or bibliography. Some sections of the program (Virus) ran very slowly on the computer.

**OTHER COMMENTS:** The package could be strengthened by adding more user support materials, highlighting key vocabulary in the text of the tutorial, and including a quiz at the end of each section on the menu.

# Physics: Elementary Mechanics (PLATO)

Version: Copyright 1983

PRODUCER: Control Data Publishing Co.  
P.O. Box 261127  
San Diego, CA 92126

EVALUATION COMPLETED: June 1983 by the staff and constituents of North Clackamas School District, Milwaukie, Oregon.

COST: \$70.00

ABILITY LEVEL: High School

SUBJECT: Science

TOPIC: Physics

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: Apple II+, 48K, single disk drive, monitor. Also available for: Atari 800, TI 99/4A, and IBM-PC.

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Standard instruction, enrichment, assessment

INSTRUCTIONAL TECHNIQUES: Tutorial, simulation, problem solving

DOCUMENTATION AVAILABLE: In program -- sample program output, program operating instructions, and student's instructions. In supplementary materials -- suggested grade/ability level(s), instructional objectives, prerequisite skills or activities, teacher's information, student's instructions, student worksheets, and follow-up activities.

INSTRUCTIONAL OBJECTIVES: (STATED) To provide practice in analyzing and evaluating a problem in elementary mechanics and in identifying the elements necessary to arrive at a correct solution.

INSTRUCTIONAL PREREQUISITES: (STATED) Prior instruction on the principles of Newton's Laws of Motion, Newton's Laws of Universal Gravitation, Conservation of Linear and Angular Momentum, Conservation of Mechanical Energy, Two-Dimensional Kinetics with Constant Acceleration, Kinetics and Dynamics of Circular Motion, Kinetics and Dynamics of Mass-Spring Systems, Friction, and Torque.

CONTENT AND STRUCTURE: The package includes a manual and two disks with back-up containing the Phizquiz computer-based activities. The student is presented with an animated example of a physical situation. A question about the situation is then asked. The student must determine what information is necessary to answer the question and what concepts should be used to arrive at the correct answer. A fixed amount of "money" is available to buy the necessary information. The less help a student needs before correctly answering the question, the less money he or she will spend. A calculator mode is also available to the student.

Continued on back

## EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
•					Content presentation is clear and logical.
•					Difficulty level is appropriate to audience.
•					Graphics/sound/color are used appropriately.
•					Use of package is motivational.
•					Student creativity is effectively stimulated.
•					Feedback is effectively employed.

SA A D SD NA

•					Learner controls rate and sequence.
•					Instruction integrates with prior learning.
		•			Learning can be generalized.
•					User support materials are comprehensive.
•					User support materials are effective.
•					Information displays are effective.
•					Users can operate easily and independently.
	•				Teachers can employ package easily.
•					Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or recommend use of this package with little or no change.

Summary: Scale from 1 (Low) to 5 (High):  
Content - 5; Instructional Characteristics - 4;  
Technical Characteristics - 4.

Physics: Elementary Mechanics (PLATO),  
continued

**ESTIMATED STUDENT TIME REQUIRED:** It would take a student three to six hours to complete the package.

**POTENTIAL USES:** The package could be used by individual students as a problem-solving investigation in the physics of elementary mechanics. It provides an analytic exercise for students.

**MAJOR STRENGTHS:** The graphics are superb and the program is well documented. Transition from graphics page to another page is easy. Externally the documentation is good, however, it is quite concise. Internally the documentation clearly defines objectives.

**MAJOR WEAKNESSES:** Although the program gives hints to the solution, it should give students the method of solution if the student becomes completely stumped. At times a dual disk drive would be needed (although by switching disks this can be avoided). Program is disk dependent and, therefore, a separate set of disks would be needed for each separate activity.

**OTHER COMMENTS:** A nice package which could be used effectively with proper introduction and set up by the instructor. I would rank this as very challenging for high school students.



## Tank Tactics

VERSION: Copyright 1981

PRODUCER: Data Command, A Division of  
Imperial International Education  
P.O. Box 548  
Kankakee, IL 60901

EVALUATION COMPLETED: June 1983 by the  
staff and constituents of Region IV, ISC,  
Houston, Texas.

COST: \$197.50

ABILITY LEVEL: Grades 3 through 12

SUBJECT: Language Arts

TOPIC: Reading, Vocabulary

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: Apple II or Apple II+,  
one disk drive, color monitor

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Remediation,  
standard instruction

INSTRUCTIONAL TECHNIQUES: Drill and  
practice, tutorial, game

DOCUMENTATION AVAILABLE: In program —  
sample program output, program operating  
instructions, teacher's information, student's  
instructions. In supplementary materials —  
instructional objectives, sample program output,  
program operating instructions, teacher's  
information, student's instructions.

### INSTRUCTIONAL OBJECTIVES: (STATED)

Improves word recognition ability by working  
with contractions, suffixes, prefixes, base words,  
homonyms and plurals.

### INSTRUCTIONAL PREREQUISITES:

(INFERRED) Users of the package should have  
received instruction in the language arts skills  
covered.

CONTENT AND STRUCTURE: The package  
consists of seven diskettes and an accompanying  
manual. The diskettes cover contractions,  
suffixes, prefixes, base words, homonyms and  
plurals in a game format for drill and practice.  
Diskette 1 presents three rounds of four games  
each and the other six diskettes present three  
rounds of six games each. A "teacher feature"  
shows the student his/her record of each game,  
listing the exact words missed. A class record  
keeper is located in the back of the manual. The  
manual provides a summary for each program,  
describes how each skill is taught and shows the  
teacher which words or sentences are used.

### ESTIMATED STUDENT TIME REQUIRED:

Approximately 10 minutes per day

POTENTIAL USES: The grade level is not stated,  
but all words used are listed in the accompanying

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
•					Content presentation is clear and logical.
•					Difficulty level is appropriate to audience.
•					Graphics/sound/color are used appropriately.
•					Use of package is motivational.
	•				Student creativity is effectively stimulated.
	•				Feedback is effectively employed.

SA A D SD NA

•					Learner controls rate and sequence.
•					Instruction integrates with prior learning.
•					Learning can be generalized.
•					User support materials are comprehensive.
•					User support materials are effective.
•					Information displays are effective.
•					Users can operate easily and independently.
•					Teachers can employ package easily.
	•				Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package with little or no  
change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 5, Instructional Characteristics - 5,  
Technical Characteristics - 4.

## Tank Tactics, continued

documentation so the teacher can determine appropriate use. The package could be used on both elementary and secondary levels for drill and practice in language arts.

**MAJOR STRENGTHS:** The package is user friendly and motivational, utilizing appealing animated graphics in a game format. The program is self-directing and self-correcting, as well as easy to follow. The teacher needs virtually no preparation to get students started. The teacher can see a summary of student performance and is provided with a summary of each program in the manual. Each program begins with basic instruction in the specific word skill to be used. This is good for review of concepts.

**MAJOR WEAKNESSES:** The program does not branch automatically to different levels of difficulty. There is not much variety in the feedback responses. The game format is repetitive and there is no rate change from game to game. On disk 4 (Prefixes) the game format does not change to allow the user to look at prefix and then base word. On disk 6 (Homonyms), when an answer is incorrect, a display of matching homonyms might reinforce the concept.

## Big Door Deal

VERSION: 1981

PRODUCER: Data Command,  
Division of Imperial  
International Education  
P.O. Box 548  
Kankakee, IL 60901

EVALUATION COMPLETED: June 1983 by the  
staff and constituents of Region IV ISC, Houston,  
Texas.

COST: \$113.75

ABILITY LEVEL: Grades 6 through 12

SUBJECT: Language Arts

TOPIC: Reading

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: Apple II or Apple II+,  
disk drive, color monitor

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Enrichment,  
standard instruction

INSTRUCTIONAL TECHNIQUES: Drill and  
practice, tutorial, game

DOCUMENTATION AVAILABLE: In program —  
sample program output, program operating  
instructions, teacher's information, student's  
instructions. In supplementary materials —  
instructional objectives, sample program output,  
program operating instructions, teacher's  
information, student's instructions.

### INSTRUCTIONAL OBJECTIVES: (INFERRED)

To improve reading skills by using context clues  
to determine word meanings; by using figurative  
language to increase comprehension; by  
developing critical thinking through analogies; by  
organizing information through sequencing.

### INSTRUCTIONAL PREREQUISITES:

(INFERRED) Users of this package should have  
received instruction in the language arts skills  
covered.

### CONTENT AND STRUCTURE:

This package  
consists of four diskettes and an accompanying  
manual. The diskettes cover context clues,  
figurative language, analogies and sequencing  
events. Diskettes 1, 3, 4 present three rounds of  
games, each one increasing in difficulty.  
Diskette 2 also presents three rounds, but there is  
no indication that the difficulty level is  
increased. A "teacher feature" shows the number  
of correct and incorrect student responses. A  
class record keeper is located in the back of the  
manual. The manual promotes a summary of  
each program.

### ESTIMATED STUDENT TIME REQUIRED:

Approximately 15 minutes per day

POTENTIAL USES: The grade level is not  
specifically stated, but the sentences and words

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
•					Content presentation is clear and logical.
•					Difficulty level is appropriate to audience.
•					Graphics/sound/color are used appropriately.
•					Use of package is motivational.
	•				Student creativity is effectively stimulated.
	•				Feedback is effectively employed.

SA A D SD NA

•					Learner controls rate and sequence.
•					Instruction integrates with prior learning.
•					Learning can be generalized.
•					User support materials are comprehensive.
•					User support materials are effective.
•					Information displays are effective.
•					Users can operate easily and independently.
•					Teachers can employ package easily.
	•				Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package with little or no  
change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 5, Instructional Characteristics - 4,  
Technical Characteristics - 4.

### Big Door Deal, continued

used are listed in the accompanying documentation. Could be effectively used at upper levels for drill and practice in language arts.

**MAJOR STRENGTHS:** This package is user friendly and easy to follow. The game format is motivational. The teacher needs virtually no preparation to get students started. The teachers guide gives a summary of each program, and the record keeping feature allows the teacher to see student performance scores.

**MAJOR WEAKNESSES:** The program does not branch automatically to different levels of difficulty. There is no rate change from game to game. There is no variety in correct responses. Thus, it is sometimes fun to get wrong answers! The teacher only sees the number of wrong and right answers, but does not see what the student missed.

## Fractions Practice (PLATO)

VERSION: 1983

PRODUCER: Control Data Publishing Co.  
P.O. Box 261127  
San Diego, CA 92126

EVALUATION COMPLETED: June 1983 by the staff and constituents of Region IV ISC, Houston, Texas.

COST: \$60.00

ABILITY LEVEL: Grades 4 through 9

SUBJECT: Mathematics

TOPIC: Arithmetic, Fractions

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: 48K Apple II+, disk drive, TV or monitor. Also available for: Atari 800, TI 99/4A, and IBM-PC.

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Enrichment

INSTRUCTIONAL TECHNIQUES: Drill and practice, game

DOCUMENTATION AVAILABLE: In program — instructional objectives, program operating instructions, student's instructions. In supplementary materials — instructional objectives, prerequisite skills or activities, program operating instructions, teacher's information, student's instructions, student worksheets.

INSTRUCTIONAL OBJECTIVES: (STATED) To help students improve their fractional differentiation and identification skills. To provide practice in visually determining fractional intervals. To help familiarize students with a variety of fractional concepts.

INSTRUCTIONAL PREREQUISITES: (STATED) Students must have a comprehension of basic fractions. They must also be able to understand the instructions that appear in the lessons and must know how to use the microcomputer.

CONTENT AND STRUCTURE: The student has the option to play the Darts game or to take the Darts Check-up. At the beginning of the game, a vertical number line appears with balloons "tied" to the line at random locations. The location of each balloon can be identified by a fraction, decimal, or whole number. The student enters a value to "throw a dart" at one of the balloons. If the dart is "thrown" to the correct location, the balloon is "popped."

ESTIMATED STUDENT TIME REQUIRED: 15-30 minutes per day

POTENTIAL USES: The game may be utilized by students in order to practice writing fractions, practice estimating fractions and identifying

Continued on back

### EVALUATION SUMMARY

SA A D SD NA

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is accurate.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content has educational value.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is free of stereotypes.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purpose of package is well defined.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Package achieves defined purpose.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content presentation is clear and logical.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Difficulty level is appropriate to audience.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Graphics/sound/color are used appropriately.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Use of package is motivational.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Student creativity is effectively stimulated.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feedback is effectively employed.

SA A D SD NA

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learner controls rate and sequence.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Instruction integrates with prior learning.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learning can be generalized.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are comprehensive.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are effective.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Information displays are effective.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Users can operate easily and independently.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Teachers can employ package easily.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Computer capabilities are used appropriately.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or recommend use of this package with little or no change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 3,  
Technical Characteristics - 3.



## Fractions Practice (PLATO), continued

fractional intervals along a number line, once they have been exposed to these concepts in a regular classroom setting.

**MAJOR STRENGTHS:** Students are provided with immediate feedback and the incorrect responses can be "hints" in determining the correct responses. The program makes an effective use of graphics and sound. The students are moved up or down in levels of difficulty based on the number of correct and incorrect responses.

**MAJOR WEAKNESSES:** The software package is very limited in possible uses. Only one lesson format is utilized and may tend to get boring rather quickly. Also, use of horizontal number line would provide a variety of concept development possibilities. When a dart is sent to a location that is very close to a previously identified location, the numerals are written over the old numerals and make it difficult to read the locations.

**OTHER COMMENTS:** The game format could provide a nice addition to be included within a more comprehensive package on fraction concepts. Otherwise, the package has a very limited instructional use.



# German Vocabulary Builder (PLATO)

VERSION: 1983

PRODUCER: Control Data Publishing Co.  
P.O. Box 261127  
San Diego, CA 92126

EVALUATION COMPLETED: June 1983 by the staff and constituents of Region IV ISC, Houston, Texas.

COST: \$60.00

ABILITY LEVEL: Grades 8 through 12  
SUBJECT: Languages  
TOPIC: German  
MEDIUM OF TRANSFER: 5-1/4 in. disk  
REQUIRED HARDWARE: 48K Apple II+, disk drive, monitor. Also available for: Atari-800, TI 99/4A, and IBM-PC.  
REQUIRED SOFTWARE: Applesoft, DOS 3.3  
INSTRUCTIONAL PURPOSE: Remediation, Assessment  
INSTRUCTIONAL TECHNIQUES: Drill and practice, Game

DOCUMENTATION AVAILABLE: In program — program operating instructions, student's instructions. In supplementary materials — instructional objectives, prerequisite skills and activities, program operating instructions, teacher's information, resource/reference information, student worksheets, follow-up activities.

INSTRUCTIONAL OBJECTIVES: (STATED) This package is intended to provide drill and practice in recognizing and understanding a basic German language vocabulary.

INSTRUCTIONAL PREREQUISITES: (STATED) A basic introductory exposure to German and a review of vocabulary lists would be helpful before using this program.

CONTENT AND STRUCTURE: There are two kinds of drills which can be presented in one of three presentation modes: English to German, German to English, or combination. One drill is a version of hangman where the student must guess the letters in a computer-selected word. The word is given in one language and the student must guess the word in the other language. The other drill is a pyramid game in which the student must correctly answer 12 multiple choice questions. Questions are assigned an increasing monetary value. Detailed instructions as well as constant feedback are provided. Students may view the chosen word lists before running a lesson. Ten word lists are available. A support manual supplements the computer-based activity. Sample worksheets and recordkeeping sheets are provided.

ESTIMATED STUDENT TIME REQUIRED: 10-20 minutes per word list

Continued on back

## EVALUATION SUMMARY

SA A D SD NA

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is accurate.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content has educational value.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is free of stereotypes.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purpose of package is well defined.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Package achieves defined purpose.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content presentation is clear and logical.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Difficulty level is appropriate to audience.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Graphics/sound/color are used appropriately.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Use of package is motivational.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Student creativity is effectively stimulated.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feedback is effectively employed.

SA A D SD NA

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learner controls rate and sequence.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Instruction integrates with prior learning.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learning can be generalized.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are comprehensive.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are effective.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Information displays are effective.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Users can operate easily and independently.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Teachers can employ package easily.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Computer capabilities are used appropriately.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would highly recommend this package.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 4,  
Technical Characteristics - 4.

**German Vocabulary Builder (PLATO), continued**

**POTENTIAL USES:** Students can augment their classroom lessons through the use of this package. This drill in visual comprehension will effectively complement an audio German lab. This package could be used primarily as an individual or small group exercise. It could be used as an assessment tool in addition to being used for drill and practice.

**MAJOR STRENGTHS:** The program is easy to use and the sound can be turned off by the user. The manual contains worksheets and recordkeeping sheets. The student can review the word list before the game begins. In the hangman exercise, incorrect words are repeated after the twelve words have been given. In the pyramid exercise, translation for all four possible answers are given instead of just telling the student whether he is right or wrong. The program has a closing section following the completion of the game.

**MAJOR WEAKNESSES:** Lack of pronunciation. An auditory component would make the program more effective. The user must keep track of his own number of correct and incorrect responses in both games. The only time the score is displayed is when all items are correct (100%). Otherwise just question value and total earning in pyramid game are shown. Program would be more effective with visual of correct and incorrect responses.

**OTHER COMMENTS:** The relation between certain special letters and the number keys was not found in the documentation. Information displayed on the screen indicated the word "Zahlen" means to count. The documentation indicates it means to pay. To count isn't a part of the word list in the manual.

# Pik-Pek-Put

VERSION: 1981

PRODUCER: Data Command, Division of  
Imperial International Education  
P.O. Box 548  
Kankakee, IL 60901

EVALUATION COMPLETED: June 1983 by the staff and  
constituents of Region IV ISC, Houston, Texas.

COST: \$227.50

ABILITY LEVEL: Grades 5 through 8

SUBJECT: Language Arts

TOPIC: Reading, Vocabulary

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: Apple II or Apple II+, one disk  
drive, color monitor

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Enrichment

INSTRUCTIONAL TECHNIQUES: Drill and practice,  
tutorial, game

DOCUMENTATION AVAILABLE: In program — sample  
program output, program operating instructions, teacher's  
information, student's instructions. In supplementary  
materials — instructional objectives, sample program  
output, program operating instructions, teacher's &  
information, student's instructions.

INSTRUCTIONAL OBJECTIVES: (STATED) To develop  
skills in the use of suffixes, contractions, base words,  
plurals, and possessives.

INSTRUCTIONAL PREREQUISITES: (INFERRED) Users  
of the package should have received instruction in the  
language arts skills covered.

CONTENT AND STRUCTURE: The package contains  
eight diskettes and an accompanying manual. It  
challenges the student to put his/her word skills to work  
to beat the computer in a game of strategy much like  
Tic-Tac-Toe. The diskettes cover suffixes, contractions,  
base words, plurals and possessives. Each diskette  
presents six rounds of three games each. A "teacher  
feature" shows the student his or her record for each  
round listing the words missed. A class record keeper is  
located in the back of the manual. The manual provides a  
summary of each program.

ESTIMATED STUDENT TIME REQUIRED: 15 minutes  
per day

POTENTIAL USES: This would be a good review tool for  
concepts previously introduced by the teacher.

MAJOR STRENGTHS: The package is user friendly  
incorporating a game format which is motivational and  
challenging for students. The program is easy to follow.  
The teachers guide gives a summary of each program and  
the teacher can see a summary of student performance  
by utilizing the "teacher feature". No teacher  
preparation is required to get students started.

MAJOR WEAKNESSES: The program does not branch to  
different levels of difficulty. The letters had to be typed  
very slowly to be accepted by the program. Wrong  
responses are not corrected for the student.

OTHER COMMENTS: It seemed to take a long time to  
play six games for a reward!!

## EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
•					Content presentation is clear and logical.
•					Difficulty level is appropriate to audience.
•					Graphics/sound/color are used appropriately.
•					Use of package is motivational.
			•		Student creativity is effectively stimulated.
•					Feedback is effectively employed.

SA A D SD NA

•					Learner controls rate and sequence.
•					Instruction integrates with prior learning.
•					Learning can be generalized.
•					User support materials are comprehensive.
•					User support materials are effective.
•					Information displays are effective.
•					Users can operate easily and independently.
•					Teachers can employ package easily.
•					Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package with little  
or no change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 5, Instructional Characteristics - 4,  
Technical Characteristics - 4.

# Whole Numbers Practice (PLATO)

VERSION: 1983

PRODUCER: Control Data Publishing Co.  
P.O. Box 261127  
San Diego, CA 92126

EVALUATION COMPLETED: June 1983 by the staff and constituents of Region IV ISC, Houston, Texas.

COST: \$60.00

ABILITY LEVEL: Grades 5 through 8

SUBJECT: Mathematics

TOPIC: Arithmetic, Whole Numbers

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: 48K Apple II+, disk drive, monitor. Also available for: Atari 800, TI 99/4A, and IBM-PC.

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Remediation, standard instruction, enrichment

INSTRUCTIONAL TECHNIQUES: Drill and practice, game

DOCUMENTATION AVAILABLE: In program — program operating instructions, student's instructions. In supplementary materials — suggested grade/ability level(s), instructional objectives, prerequisite skills or activities, program operating instructions, teacher's information, student worksheets.

INSTRUCTIONAL OBJECTIVES: (STATED) Designed to help students improve basic addition, subtraction, multiplication and division skills; to help students increase their speed and accuracy with basic number facts; and to help students quickly distinguish between operations.

INSTRUCTIONAL PREREQUISITES: (STATED) Knowledge of basic number facts. User must know how to operate the computer.

CONTENT AND STRUCTURE: Students accumulate points for correctly answering math problems. Each game consists of five rounds. Each round has a different type of problem (addition, subtraction, multiplication, division, and mixed). If time permits, students get three tries per problem. In order to make a high score, the student must try to accurately answer problems as quickly as possible. When a problem is answered correctly, the time gets a little shorter. If the student's final score is one of the ten highest scores, the student may enter his initials into the "Hall of Fame."

ESTIMATED STUDENT TIME REQUIRED: 10-15 minutes per day

POTENTIAL USES: This package can be used as a part of the curriculum for any class studying basic number facts. It may be used in small groups competing against each other or as a privilege/incentive for individual students. It may also be used as a tutor for students with special needs.

MAJOR STRENGTHS: This program will be very motivational for students; directions are clearly stated and easy to follow. The manual is well-written with good supplementary activities. The challenge of improving the student's score is great! This game should help to improve concentration.

MAJOR WEAKNESSES: The time period allowed to solve problems might be too short for some students who aren't familiar with the number keys on the keyboard.

OTHER COMMENTS: It would be nice to have one full disk on each of the four operations for remedial students and also to have slower speeds for these students.

## EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
	•				Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
•					Content presentation is clear and logical.
	•				Difficulty level is appropriate to audience.
	•				Graphics/sound/color are used appropriately.
•					Use of package is motivational.
	•				Student creativity is effectively stimulated.
	•				Feedback is effectively employed.

SA A D SD NA

•					Learner controls rate and sequence.
•					Instruction integrates with prior learning.
	•				Learning can be generalized.
•					User support materials are comprehensive.
•					User support materials are effective.
	•				Information displays are effective.
•					Users can operate easily and independently.
•					Teachers can employ package easily.
•					Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would highly recommend this package.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 5, Instructional Characteristics - 4,  
Technical Characteristics - 5.



# Personal Graphics

VERSION: 1983

PRODUCER: Little, Brown Microcomputer  
Bookshelf  
34 Beacon Street  
Boston, MA 02106

EVALUATION COMPLETED: June 1983 by the  
staff and constituents of the Institute of  
Educational Research, Glenn Ellyn, Illinois.

COST: \$14.50

ABILITY LEVEL: Grade 9 through postsecondary  
SUBJECT: Computer Science  
TOPIC: Programming  
MEDIUM OF TRANSFER: 5-1/4 in. disk  
REQUIRED HARDWARE: 48K Apple II+, single  
disk drive, monitor  
REQUIRED SOFTWARE: Applesoft, DOS 3.3  
INSTRUCTIONAL PURPOSE: Enrichment  
INSTRUCTIONAL TECHNIQUES: Graphics,  
utilities

DOCUMENTATION AVAILABLE: In  
supplementary materials — sample program  
output, and program operating instructions.

INSTRUCTIONAL OBJECTIVES: (INFERRED)  
To increase the student's ability to use the  
graphics capability of the Apple II computer.

INSTRUCTIONAL PREREQUISITES:  
(INFERRED) Programming in Applesoft BASIC.

CONTENT AND STRUCTURE: This package  
contains a book that gives the programmer  
techniques for writing graphics routines for the  
Apple. All example programs discussed in the  
text are supplied on the disk that comes with the  
package.

POTENTIAL USES: For effective use, users must  
have good, advanced math background. I would  
use this in a senior high school in a math-oriented  
program.

MAJOR STRENGTHS: The package is very  
complete. The range is broad and covers the  
subject well.

MAJOR WEAKNESSES: Math functions are  
complex at times. The use of error trapping is  
poor. It is difficult to see what some programs  
want to accomplish, and others are needless  
time consuming, making the package very  
difficult to use.

OTHER COMMENTS: This package is unique in  
that the programs on the disk are not  
instructional in nature but are examples which  
correlate with textbook instruction.  
Consequently, many of the evaluation criteria do  
not apply. However, the ratings shown reflect  
the evaluators' opinions of the package in an  
instructional setting.

## EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
	•				Content has educational value.
				•	Content is free of stereotypes.
		•			Purpose of package is well defined.
		•			Package achieves defined purpose.
		•			Content presentation is clear and logical.
		•			Difficulty level is appropriate to audience.
				•	Graphics/sound/color are used appropriately.
	•				Use of package is motivational.
	•				Student creativity is effectively stimulated.
				•	Feedback is effectively employed.

SA A D SD NA

				•	Learner controls rate and sequence.
	•				Instruction integrates with prior learning.
		•			Learning can be generalized.
	•				User support materials are comprehensive.
	•				User support materials are effective.
				•	Information displays are effective.
			•		Users can operate easily and independently.
		•			Teachers can employ package easily.
	•				Computer capabilities are used appropriately.
				•	Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package only if certain  
changes were made.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 5, Instructional Characteristics - 3,  
Technical Characteristics - 3.

## The Factory

**PRODUCER:** Sunburst Communications, Inc.  
39 Washington Avenue  
Pleasantville, NY 10570

**EVALUATION COMPLETED:** November 1983 by the staff and constituents of Department of Defense Dependents Schools (DoDDS), Washington, DC.

**COST:** \$49.00

**ABILITY LEVEL:** Grades 4 through 12

**SUBJECT:** Problem Solving

**MEDIUM OF TRANSFER:** 5-1/4 in. disk

**REQUIRED HARDWARE:** 16K Atari 400, 600XL, 800, 800XL, 1200XL, 1400XL, 1450XL, color monitor or TV with adapter and one disk drive.

Also available for: Apple II/II+/IIe, Commodore 64, and TRS 80 Color or Color 2.

**REQUIRED SOFTWARE:** Atari BASIC, DOS 3.2

**INSTRUCTIONAL PURPOSE:** Standard instruction, enrichment

**INSTRUCTIONAL TECHNIQUES:** Problem solving, simulation

**DOCUMENTATION AVAILABLE:** In program — program operating instructions. In supplementary materials — suggested grade/ability level(s), instructional objectives, prerequisite skills, program operating instructions, teacher's information, student worksheets, preliminary and follow-up activities.

**INSTRUCTIONAL OBJECTIVES:** To increase visual discrimination, spatial perception, and logic skills.

to gain experience in understanding the importance of sequence and order.

**CONTENT AND STRUCTURE:** This program gives the students the opportunity to develop problem solving abilities through three levels of challenging simulated production line activities. The first part, TEST A MACHINE, allows a student to try each of three machines to see the effect each has on a raw material. The second part, BUILD A FACTORY, allows the student to put up to eight machines together in sequence which will affect the raw material. In the third part, MAKE A PRODUCT, students are shown a product made by several machines and asked to reconstruct the sequence of events to produce the product.

**ESTIMATED STUDENT TIME REQUIRED:** 30 minutes to one hour.

**POTENTIAL USES:** This package is appropriate for fourth graders through adult learners. It can best be used for independent work, small group discussions or large group activity.

**MAJOR STRENGTHS:** The objectives are clearly defined. The technical quality is good. It is especially fine for developing reasoning skills and visual perception.

**MAJOR WEAKNESSES:** The fine detail in graphics can lead to confusion; specifically the punch shape (circle or square) is difficult to distinguish and is critical to the solution. An expanded display area might help.

### EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
	•				Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
	•				Content presentation is clear and logical.
	•				Difficulty level is appropriate to audience.
	•				Graphics/sound/color are used appropriately.
	•				Use of package is motivational.
	•				Student creativity is effectively stimulated.
	•				Feedback is effectively employed.

SA A D SD NA

	•				Learner controls rate and sequence.
	•				Instruction integrates with prior learning.
	•				Learning can be generalized.
	•				User support materials are comprehensive.
	•				User support materials are effective.
	•				Information displays are effective.
	•				Users can operate easily and independently.
	•				Teachers can employ package easily.
	•				Computer capabilities are used appropriately.
	•				Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would highly recommend this package.

**Summary:** Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 4,  
Technical Characteristics - 4.



## Stickybear Numbers

**PRODUCER:** Xerox Education Publications  
Computer Software Division  
Middletown, CT 06457

**EVALUATION COMPLETED:** September 1983 by  
the staff and constituents of Linn-Benton ESD,  
Albany, Oregon.

**COST:** \$39.95

**ABILITY LEVEL:** Preschool through Grade 1  
**SUBJECT:** Mathematics, Arithmetic  
**TOPIC:** Arithmetic, Counting, Number Recognition  
**MEDIUM OF TRANSFER:** 5-1/4 in. disk  
**REQUIRED HARDWARE:** Apple II/II+/Ile, 48K  
RAM, single disk drive  
**INSTRUCTIONAL PURPOSE:** Standard instruction  
**INSTRUCTIONAL TECHNIQUES:** Drill and practice

**DOCUMENTATION AVAILABLE:** In  
supplementary materials — suggested grade/ability  
level(s), instructional objectives, program operating  
instructions, teacher's information, student's  
instructions, follow-up activities.

**INSTRUCTIONAL OBJECTIVES: (STATED)** To  
develop skills in counting and number recognition.

**CONTENT AND STRUCTURE:** This package  
includes a hardback storybook entitled "One Bear,  
Two Bears," an instruction sheet, a poster, stickers,  
and one disk. When children press a number, they  
are rewarded with a graphic show of that number of  
objects moving around the screen. Then, if the

space bar is pressed, one object will disappear and  
the number will be reduced by one, all the way down  
to zero. The space bar can also be used to count up  
from zero to nine. Each time a number is pressed,  
a new set of pictures will be displayed. There are a  
great number of picture series stored on the disk to  
allow for a variety of counting shows.

**ESTIMATED STUDENT TIME REQUIRED:** 10-15  
minutes per day

**POTENTIAL USES:** This package may be used with  
individuals or small groups as reinforcement of  
instruction on counting.

**MAJOR STRENGTHS:** This package makes  
excellent use of computer graphics and sound which  
is motivating for the user. The large number of  
pictures and shapes available for counting holds the  
students' interest. The program is easy for the  
student to use and well-protected against  
inappropriate responses. The user can start and  
stop at his/her own discretion.

**MAJOR WEAKNESSES:** The initial counting skills  
are not taught by the package. There is no way,  
without supervision, to determine if the child is  
actually counting the objects since the child does  
not need to respond to the computer.

**OTHER COMMENTS:** We would recommend use of  
this package with parent supervision in order to  
achieve the intended purpose.

### EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
	•				Purpose of package is well defined.
	•				Package achieves defined purpose.
•					Content presentation is clear and logical.
•					Difficulty level is appropriate to audience.
•					Graphics/sound/color are used appropriately.
•					Use of package is motivational.
	•				Student creativity is effectively stimulated.
•					Feedback is effectively employed.

SA A D SD NA

•					Learner controls rate and sequence.
•					Instruction integrates with prior learning.
•					Learning can be generalized.
•					User support materials are comprehensive.
•					User support materials are effective.
•					Information displays are effective.
•					Users can operate easily and independently.
•					Teachers can employ package easily.
•					Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package with little or no  
change.

Summary: Scale from 1 (Low) to 5 (High). Content  
- 5; Instructional Characteristics - 4; Technical  
Characteristics - 5.

## Special Needs, Volume 1 — Spelling

VERSION: 2

PRODUCER: MECC  
2520 Broadway Drive  
Lauderdale, MN 55113

EVALUATION COMPLETED: June 1983 by the staff and constituents of Linn-Benton County ESD, Albany, Oregon.

COST: \$44.00

ABILITY LEVEL: Grades 2 through 6 (for motor-impaired students)

SUBJECT: Language Arts

TOPIC: Spelling

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: Apple II, 32K, single disk drive, monitor

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Remediation, standard instruction

INSTRUCTIONAL TECHNIQUES: Drill and practice

DOCUMENTATION AVAILABLE: In program — student's instructions. In supplementary materials — suggested grade ability level(s), instructional objectives, sample program output, program operating instructions, and teacher information.

INSTRUCTIONAL OBJECTIVES: (STATED) To

teach students primary spelling words. To drill physically handicapped students on same words as the rest of the class. To provide the teacher with a means of changing words and sentences.

INSTRUCTIONAL PREREQUISITES: None

CONTENT AND STRUCTURE: Volume 1 diskette contains 20 spelling drills. A sentence with three possible answers is presented to the student. The student chooses a numbered word to answer using the game paddles or any keyboard selection. All answers are reinforced with the correct answer. Teacher has the option to change sentences and words by following procedures in the manual.

ESTIMATED STUDENT TIME REQUIRED: 10 minutes per day OR 20 minutes twice a week OR 20 minutes per drill.

POTENTIAL USES: This program would be useful for individual or classroom review in preparing for tests. It is also aimed at helping the handicapped in special classes as well as mainstreamed classes.

MAJOR STRENGTHS: The program is student self-paced. Organization is easy to follow and feedback is immediate. The teacher can replace existing frames with words of his/her own.

MAJOR WEAKNESSES: None.

### EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
•					Content presentation is clear and logical.
•					Difficulty level is appropriate to audience.
•					Graphics/sound/color are used appropriately.
	•				Use of package is motivational.
	•				Student creativity is effectively stimulated.
•					Feedback is effectively employed.

SA A D SD NA

	•				Learner controls rate and sequence.
	•				Instruction integrates with prior learning.
	•				Learning can be generalized.
	•				User support materials are comprehensive.
	•				User support materials are effective.
	•				Information displays are effective.
	•				Users can operate easily and independently.
	•				Teachers can employ package easily.
	•				Computer capabilities are used appropriately.
	•				Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or recommend use of this package with little or no change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 3,  
Technical Characteristics - 3.

# The Exploring of America Series

VERSION: 1981

PRODUCER: Aquarius Publishers, Inc.  
P.O. Box 128  
Indian Rocks Beach, FL 33535

EVALUATION COMPLETED: June 1983 by the staff and constituents of Linn-Benton ESD, Albany, Oregon.

COST: \$169.00

ABILITY LEVEL: Grades 7 through 10

SUBJECT: Social Studies

TOPIC: History

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: Apple II, TRS-80

REQUIRED SOFTWARE: Apple: Applesoft, DOS 3.2 or 3.3

INSTRUCTIONAL PURPOSE: Enrichment

INSTRUCTIONAL TECHNIQUES: Tutorial

DOCUMENTATION AVAILABLE: In program — instructional objectives, program operating instructions, post-test, student's instructions

INSTRUCTIONAL OBJECTIVES: (STATED) The instructional packages are designed to extend and supplement basic historical textbook material and generate excitement about the subject matter.

INSTRUCTIONAL PREREQUISITES: None cited.

CONTENT AND STRUCTURE: Six diskettes and a teachers guide are designed to assist the instructor

in teaching about the American heritage. The microcomputer programs present a series of paragraphs that provide basic information about the subject. Color graphics and "tunes" are used to enhance the learning experience for Apple II programs. TRS-80 programs include graphics. After several pages of information and graphics, questions are presented. An audio "reward" is given for correct answers; for incorrect answers, a reinforcing paragraph of information is presented.

ESTIMATED STUDENT TIME REQUIRED: 30 minutes per diskette (6 diskettes in package)

POTENTIAL USES: Grades 5 through 8, or low level high school students. Extra material for writing reports.

MAJOR STRENGTHS: Information was accurate and concise. The simple maps were helpful. No time limit on reading or answering questions was good.

MAJOR WEAKNESSES: Too much time was wasted on graphics (displays). Objectives need to be stated more clearly. Little interaction was used. The computer still says good when students miss all or most of the answers! All of the questions were facts! Need more interpretation and inference questions.

OTHER COMMENTS: This program was a straight read-and-answer-the-fact-questions program — could be improved by a variety of question types, also by adding a simulation type of game to the program. Have the students take the trips, do the exploring, etc. (simulation).

## EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
	•				Content has educational value.
	•				Content is free of stereotypes.
	•				Purpose of package is well defined.
	•				Package achieves defined purpose.
•					Content presentation is clear and logical.
		•			Difficulty level is appropriate to audience.
	•				Graphics/sound/color are used appropriately.
	•				Use of package is motivational.
			•		Student creativity is effectively stimulated.
	•				Feedback is effectively employed.

SA A D SD NA

•					Learner controls rate and sequence.
	•				Instruction integrates with prior learning.
	•				Learning can be generalized.
	•				User support materials are comprehensive.
	•				User support materials are effective.
•					Information displays are effective.
	•				Users can operate easily and independently.
	•				Teachers can employ package easily.
		•			Computer capabilities are used appropriately.
	•				Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or recommend use of this program with little or no change.

Summary: Scale from 1 (Low) to 5 (High). Content - 4, Instructional Characteristics - 3, Technical Characteristics - 3.

## Sports Stats

PRODUCER: TIES  
1925 W. County Road B-2  
Roseville, MN 55113

EVALUATION COMPLETED: June 1983 by the staff and constituents of North Clackamas School District, Milwaukie, Oregon.

COST: \$59.95

ABILITY LEVEL: Not applicable.  
SUBJECT: Physical Education  
TOPIC: Athletics Statistics  
MEDIUM OF TRANSFER: 5-1/4 in. disk  
REQUIRED HARDWARE: 48K Apple II+, single disk drive, monitor, printer  
REQUIRED SOFTWARE: AppleSoft, DOS 3.3  
INSTRUCTIONAL TECHNIQUES: Information, retrieval

DOCUMENTATION AVAILABLE: In program — program operating instructions. In supplementary materials — suggested grade/ability level(s), instructional objectives, sample program output, program operating instructions, teacher's information, and student worksheets.

INSTRUCTIONAL OBJECTIVES: (STATED) To process athletic statistical data for individuals and/or team performance. To generate reports using current data or cumulative data.

CONTENT AND STRUCTURE: Sport Stats is a utility package which allows for processing of athletic statistical data for individual and/or team performance. Users may choose from 12 available routines for basketball, wrestling, hockey, baseball,

or football. Statistical data is generated for each game, and/or player, and may be accumulated over the season.

ESTIMATED STUDENT TIME REQUIRED: In less than an hour a user could be well into the function of this package. Day-to-day updates requiring approximately 1/2 hour would then be necessary.

POTENTIAL USES: The purpose of this package is to generate information summaries and to retrieve athletic statistics. It would be useful to an individual in a coaching position. It would also be an excellent example of an information summary for display purposes. However, it would be of limited use in the classroom.

MAJOR STRENGTHS: The package is extremely well-documented. Externally, there is clear and concise dissection. Easy entry stat sheets are provided for input. Internally, there is easy transportation from one section to another.

MAJOR WEAKNESSES: The statistics which are recorded are fairly general. A more complete approach could be generated by a particular coach in a particular sport. Since it covers five sports, it covers each at a minimum level. It does the best job on baseball, but even that routine is of limited use.

OTHER COMMENTS: To a coach who knew nothing about the computer, this package would be fairly user-friendly, although the statistical analysis is somewhat weak.

### EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
•					Content presentation is clear and logical.
•					Difficulty level is appropriate to audience.
			•		Graphics/sound/color are used appropriately.
•					Use of package is motivational.
•					Student creativity is effectively stimulated.
•					Feedback is effectively employed.

SA A D SD NA

•					Learner controls rate and sequence.
•					Instruction integrates with prior learning.
•					Learning can be generalized.
•					User support materials are comprehensive.
•					User support materials are effective.
•					Information displays are effective.
•					Users can operate easily and independently.
	•				Teachers can employ package easily.
•					Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would not use or recommend use of this package.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 3; Instructional Characteristics - 3;  
Technical Characteristics - 3.



# Mind Benders, A3

VERSION: Apple

PRODUCER: Midwest Publications  
P.O. Box 448  
Pacific Grove, CA 93950

EVALUATION COMPLETED: June 1983 at the  
University of Portland, Portland, Oregon.

COST: \$49.95

ABILITY LEVEL: Grade 4 through adult  
SUBJECT: Language Arts, Mathematics  
TOPIC: Logic, Deductive Thinking, Problem Solving  
MEDIUM OF TRANSFER: 5-1/4 in. disk  
REQUIRED HARDWARE: 48K Apple II, single disk  
drive, monitor  
REQUIRED SOFTWARE: Applesoft, DOS 3.3  
INSTRUCTIONAL PURPOSE: Standard instruction,  
enrichment  
INSTRUCTIONAL TECHNIQUES: Drill and practice,  
tutorial, problem solving

DOCUMENTATION AVAILABLE: In program —  
instructional objectives, program operating instructions,  
and student's instructions. In supplementary materials —  
suggested grade/ability level(s), instructional objectives,  
prerequisite skills or activities, sample program output,  
program operating instructions, teacher's information,  
and student's instructions.

INSTRUCTIONAL OBJECTIVES: (STATED) To use given  
facts to help solve a given problem. To sharpen deductive  
thinking skills for better reading comprehension, math,  
science, writing, and test-taking.

INSTRUCTIONAL PREREQUISITES: (STATED) This  
package is of medium difficulty, so some experience with  
deductive thinking is appropriate.

CONTENT AND STRUCTURE: This package contains  
one disk and supplementary materials. Its purpose is to  
teach and drill students on deductive thinking skills. The  
student is presented with a series of eleven problems.  
The program provides feedback as the student attempts  
to solve the problem.

ESTIMATED STUDENT TIME REQUIRED: Varies with  
each student.

POTENTIAL USES: This program is suitable for use by  
individual students, or in a small group setting.

MAJOR STRENGTHS: The problems themselves are  
challenging and fun to solve.

MAJOR WEAKNESSES: Student Use — The construction  
of the chart is tedious requiring the step-by-step entry  
of both a number and a + or - sign. There are too many  
steps involved in revising incorrect entries. More  
difficult problems require two entries for each of  
twenty-five positions on the chart. Feedback — When the  
answer is fully entered into the chart and the student asks  
for a check of the answer, a single incorrect entry will  
cause the erasure of the entire chart. The student then  
must completely reenter the answer. This aspect would  
make the program frustrating to all but a few of the most  
careful and accurate students. There is no provision for  
partially correct answers.

OTHER COMMENTS: The users should be advised to  
make a working copy of the chart on paper as they  
progress with the exercise.

## EVALUATION SUMMARY

SA A D SD NA

	•				Content is accurate.
	•				Content has educational value.
	•				Content is free of stereotypes.
	•				Purpose of package is well defined.
	•				Package achieves defined purpose.
	•				Content presentation is clear and logical.
	•				Difficulty level is appropriate to audience.
		•			Graphics/sound/color are used appropriately.
	•				Use of package is motivational.
	•				Student creativity is effectively stimulated.
		•			Feedback is effectively employed.

SA A D SD NA

		•			Learner controls rate and sequence.
	•				Instruction integrates with prior learning.
	•				Learning can be generalized.
	•				User support materials are comprehensive.
	•				User support materials are effective.
		•			Information displays are effective.
		•			Users can operate easily and independently.
	•				Teachers can employ package easily.
	•				Computer capabilities are used appropriately.
	•				Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package only if certain  
changes were made.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4, Instructional Characteristics - 2,  
Technical Characteristics - 2.

# Spanish Vocabulary Builder (PLATO)

VERSION: 1983

PRODUCER: Control Data Publishing Company  
P.O. Box 261127  
San Diego, CA 92126

EVALUATION COMPLETED: June 1983 by the staff and constituents of Region IV ISC, Houston, Texas.

COST: \$60.00

ABILITY LEVEL: Grades 8 through 12

SUBJECT: Languages

TOPIC: Spanish

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: 48K Apple II+, disk drive and controller, monitor. Also available for: Atari 800, TI 99/4A, and IBM-PC.

REQUIRED SOFTWARE: Applesoft, DOS 3.3

INSTRUCTIONAL PURPOSE: Standard instruction

INSTRUCTIONAL TECHNIQUES: Drill and practice, game

DOCUMENTATION AVAILABLE: In program — suggested grade/ability level(s), program operating instructions, student's instructions. In supplementary materials — suggested grade/ability level(s), instructional objectives, prerequisite skills or activities, teacher's information, resource/reference information, student worksheets, follow-up activities.

INSTRUCTIONAL OBJECTIVES: (STATED) The Spanish activity disk is intended to provide drill and practice in recognizing and understanding a basic spanish language vocabulary.

INSTRUCTIONAL PREREQUISITES: (STATED) A basic introduction (exposure) to the Spanish language and a review of the vocabulary would be helpful to the student prior to using the Spanish Vocabulary Builder.

CONTENT AND STRUCTURE: The package consists of one diskette, a back-up diskette, and an accompanying manual with summary information and worksheets. The program contains two kinds of exercises designed to motivate students. There is an animated version of hangman and a multiple choice drill with a pyramid game format. The vocabulary consists of 500 words divided into 10 categories.

ESTIMATED STUDENT TIME REQUIRED: 20 minutes for two games per category; 2-3 hours total time.

POTENTIAL USES: This package could be used as an individual or small group activity. Student mastery of a current vocabulary list would be required for effective interaction. The package could be used for drill and practice, motivational exercise or reward, and possibly as an assessment tool.

MAJOR STRENGTHS: Well organized and highly motivational. The package includes worksheets, quizzes, vocabulary lists and other supplementary materials. The directions are easy to follow. It allows the user to escape the game. Missed words are repeated for the user. If a student becomes frustrated, he/she can get a review of the word list. The sound can be turned off if the teacher feels it is distracting.

MAJOR WEAKNESSES: Sometimes words appear in a game that are not listed in the category. The games seem long.

OTHER COMMENTS: Unless a student is highly motivated and a real "sharpie", he/she will not be able to complete both games in five minutes, as the program states.

## EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
•					Purpose of package is well defined.
•					Package achieves defined purpose.
	•				Content presentation is clear and logical.
•					Difficulty level is appropriate to audience.
•					Graphics/sound/color are used appropriately.
	•				Use of package is motivational.
				•	Student creativity is effectively stimulated.
	•				Feedback is effectively employed.

SA A D SD NA

•					Learner controls rate and sequence.
	•				Instruction integrates with prior learning.
		•			Learning can be generalized.
•					User support materials are comprehensive.
	•				User support materials are effective.
	•				Information displays are effective.
•					Users can operate easily and independently.
•					Teachers can employ package easily.
	•				Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would highly recommend this package.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 5, Instructional Characteristics - 4,  
Technical Characteristics - 5.



# Mind Benders, B1

VERSION: Apple

PRODUCER: Midwest Publications  
P.O. Box 448  
Pacific Grove, CA 93950

EVALUATION COMPLETED: June 1983 at the  
University of Portland, Portland, Oregon.

COST: \$49.95

ABILITY LEVEL: Grade 4 through adult  
SUBJECT: Language Arts, Mathematics  
TOPIC: Logic, Deductive Thinking, Problem Solving  
MEDIUM OF TRANSFER: 5-1/4 in. disk  
REQUIRED HARDWARE: 48K Apple II, single disk  
drive, monitor  
REQUIRED SOFTWARE: Applesoft, DOS 3.3  
INSTRUCTIONAL PURPOSE: Standard instruction,  
enrichment  
INSTRUCTIONAL TECHNIQUES: Drill and practice,  
tutorial, problem solving

DOCUMENTATION AVAILABLE: In program —  
instructional objectives, program operating instructions,  
and student's instructions. In supplementary materials —  
suggested grade/ability level(s), instructional objectives,  
prerequisite skills or activities, sample program output,  
program operating instructions, teacher's information,  
and student's instructions.

INSTRUCTIONAL OBJECTIVES: (STATED) To use given  
facts to help solve a given problem. To sharpen deductive  
thinking skills for better reading comprehension, math,  
science, writing, and test-taking skills.

INSTRUCTIONAL PREREQUISITES: (STATED) This  
package is of medium difficulty, so some experience with  
deductive thinking is appropriate.

CONTENT AND STRUCTURE: This package contains  
one disk and supplementary materials. Its purpose is to  
teach and drill students on deductive thinking skills. The  
student is presented with a series of eleven problems.  
The program provides feedback as the student attempts  
to solve the problem.

ESTIMATED STUDENT TIME REQUIRED: Each of the  
eleven problems will take 15 to 30 minutes. One problem  
per day would be appropriate.

POTENTIAL USES: This package is more appropriate for  
use with high school students or adults. The problems on  
this disk could be an assignment following instruction on  
problem solving techniques. The problems are fairly  
difficult so students should work in pairs.

MAJOR STRENGTHS: Level — The problems are of an  
advanced level. Student Use — The package is menu  
driven making it easy to use. The instructions are clear  
so that most students could solve the problem with little  
or no help.

MAJOR WEAKNESSES: Level — The problems are fairly  
difficult and the students will need to be directed to only  
attempt one problem at a time. Feedback — Student  
feedback simply says that more than one has been missed  
and the user has to start all over again. Student Use —  
There is no place in the program where the student can  
see all of the facts displayed at once. Therefore, the use  
of a paper and pencil grid is almost essential to finding  
the solution to the problem. Program Operation — The  
program runs very slowly.

## EVALUATION SUMMARY

SA A D SD NA

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is accurate.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content has educational value.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is free of stereotypes.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purpose of package is well defined.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Package achieves defined purpose.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content presentation is clear and logical.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Difficulty level is appropriate to audience.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Graphics/sound/color are used appropriately.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Use of package is motivational.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Student creativity is effectively stimulated.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Feedback is effectively employed.

SA A D SD NA

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learner controls rate and sequence.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Instruction integrates with prior learning.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learning can be generalized.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are comprehensive.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are effective.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Information displays are effective.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Users can operate easily and independently.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Teachers can employ package easily.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Computer capabilities are used appropriately.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package with little  
or no change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 3, Instructional Characteristics - 3,  
Technical Characteristics - 3.

# Advertising Techniques

VERSION: 1980

PRODUCER: Micro Power and Light Company  
12820 Hillcrest Road, Suite 224  
Dallas, TX 75230

EVALUATION COMPLETED: August, 1983 by the staff  
and constituents of the Linn-Benton ESD, Albany, Oregon.

COST: \$24.95

ABILITY LEVEL: Grades 5 through 12

SUBJECT: Language Arts

TOPIC: Advertising

MEDIUM OF TRANSFER: 5-1/4 in. disk

REQUIRED HARDWARE: 32K Apple II

REQUIRED SOFTWARE: DOS 3.2 or 3.3

INSTRUCTIONAL PURPOSE: Enrichment

INSTRUCTIONAL TECHNIQUES: Drill and practice,  
tutorial, problem solving

DOCUMENTATION AVAILABLE: In program — program  
operating instructions, post-test, and student's  
instructions. In supplementary materials — suggested  
grade/ability level(s).

INSTRUCTIONAL OBJECTIVES: (INFERRED) To  
develop critical analysis skills.

INSTRUCTIONAL PREREQUISITES: (INFERRED) The  
ability to read and think logically.

CONTENT AND STRUCTURE: One disk with a brief  
one-page "manual." Disk covers four main advertising  
techniques: Join the Crowd, Decide For Yourself,  
Remember Me?, and Act Now! Each technique consists  
of: instruction with illustrative examples, exercises,  
quiz, concluding mastery quiz, and consumer intelligence  
level.

ESTIMATED STUDENT TIME REQUIRED: Fifteen  
minutes to one hour; best used at one sitting.

POTENTIAL USES: The package would be useful to  
supplement the study of advertising techniques,  
persuasive presentation in speech or critical thinking  
skills. Students working individually or in pairs could  
operate this package independently.

MAJOR STRENGTHS: 1) Correct response displayed  
non-threateningly if answer is wrong. 2) Good mix of  
explanation and questioning. 3) Ability to review previous  
screen display in quiz section. 4) Highlighting of  
important text used effectively. 5) Concepts consistently  
reinforced. 6) Useful and realistic examples. 7) Good,  
simple non-threatening progress display.

MAJOR WEAKNESSES: 1) Error in quiz question  
involving football player and soap. Correct answer  
produced "We have not studied that technique." 2) Very  
minimal use of graphics with too much text display. 3)  
Text displayed at fixed, slow, "readable" rate. Some text  
stayed on screen only for a fixed period of time; no  
chance to keep display. 4) Program overuse of text may  
prove boring to some students. 5) No teacher summary  
material! Must run entire program to determine content.

OTHER COMMENTS: An effective, though somewhat  
unimaginative, program. It does what it sets out to do. I  
would use it but would not pay much for it.

## EVALUATION SUMMARY

SA A D SD NA

•					Content is accurate.
•					Content has educational value.
				•	Content is free of stereotypes.
	•				Purpose of package is well defined.
	•				Package achieves defined purpose.
	•				Content presentation is clear and logical.
	•				Difficulty level is appropriate to audience.
		•	•		Graphics/sound/color are used appropriately.
	•				Use of package is motivational.
		•			Student creativity is effectively stimulated.
	•				Feedback is effectively employed.

SA A D SD NA

	•				Learner controls rate and sequence.
	•				Instruction integrates with prior learning.
	•				Learning can be generalized.
		•			User support materials are comprehensive.
	•				User support materials are effective.
	•				Information displays are effective.
•					Users can operate easily and independently.
•					Teachers can employ package easily.
		•			Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or  
recommend use of this package with little  
or no change.

Summary: Scale from 1 (Low) to 5 (High).  
Content - 4; Instructional Characteristics - 3;  
Technical Characteristics - 2.

# The German and Russian Hangman

VERSION: 1982

PRODUCER: George Earl  
1302 S. General McMullen  
San Antonio, TX 78237

EVALUATION COMPLETED: June 1983 by the staff and constituents of Connecticut Department of Education, Hartford, Connecticut, and the Multnomah County ESD, Portland, Oregon.

COST: \$29.95

ABILITY LEVEL: Grades 9 through 12  
SUBJECT: Foreign Languages  
TOPIC: German/Russian  
MEDIUM OF TRANSFER: 5-1/4 in. disk  
REQUIRED HARDWARE: 48K Apple II or Apple II+, single disk drive, monitor,  
REQUIRED SOFTWARE: Applesoft, DOS 3.2 or 3.3  
INSTRUCTIONAL PURPOSE: Standard instruction  
INSTRUCTIONAL TECHNIQUES: Drill and practice, tutorial

DOCUMENTATION AVAILABLE: In program — program operating instructions, student's instructions. In supplementary materials — program operating instructions.

INSTRUCTIONAL OBJECTIVES: (INFERRED)  
To provide drill and practice translating between English and either German or Russian.

INSTRUCTIONAL PREREQUISITES: (INFERRED) Instruction on the meaning and

usage of the German and Russian words contained in the program.

CONTENT AND STRUCTURE: This program employs hi-res screen alphabet characters with a hangman type game format to give the user drill and practice translating between either German or Russian and English. The German program contains 140 words and 140 sentences for practice. The Russian program contains 80 words and 180 sentences. Options available include a review of the translation, and practice translating from German or Russian to English, or English to German or Russian.

ESTIMATED STUDENT TIME REQUIRED: 15 to 20 minutes per session

POTENTIAL USES: I would use it only with adults who have had extensive experience in learning another foreign language who wish to experiment with German or Russian.

MAJOR STRENGTHS: Russian characters are accurately reproduced. The layout is interesting. The program can be used independently.

Student response to both the German and Russian hangman was very positive. The graphics are good. The program is well sequenced and ample opportunity is provided to review errors. The Russian teacher was impressed with the use of the Cyrillic alphabet.

Continued on back

## EVALUATION SUMMARY

SA A D SD NA

			•	Content is accurate.
		•		Content has educational value.
	•			Content is free of stereotypes.
	•			Purpose of package is well defined.
	•			Package achieves defined purpose.
	•			Content presentation is clear and logical.
		•		Difficulty level is appropriate to audience.
	•			Graphics/sound/color are used appropriately.
	•			Use of package is motivational.
			•	Student creativity is effectively stimulated.
	•			Feedback is effectively employed.

SA A D SD NA

	•			Learner controls rate and sequence.
		•		Instruction integrates with prior learning.
		•		Learning can be generalized.
	•			User support materials are comprehensive.
	•			User support materials are effective.
	•			Information displays are effective.
	•			Users can operate easily and independently.
	•			Teachers can employ package easily.
	•			Computer capabilities are used appropriately.
	•			Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

One evaluator indicated he would not recommend use of this package.

Two evaluators indicated that they would use or recommend use of this package with little or no change.

Northwest Regional Educational Laboratory  
300 S.W. Sixth Avenue • Portland, Oregon 97204  
(503) 248-6800

This evaluation is based on the evaluations of three or more review who are representative of potential users of the courseware package  
Permission to reproduce this document is hereby granted.

The German and Russian Hangman, continued

MAJOR WEAKNESSES: The use of English phonetic transcriptions for Russian letters detracts from the authenticity of the content. Translating should be a very limited activity in secondary foreign language classes. It can be counterproductive in the total experience of learning a language. Much of the program can be done by guessing. It is questionable how much language learning takes place. The Russian teacher was concerned about the failure to use international translation symbols which will be confusing to students.

## Genetics

PRODUCER: TIES  
1925 W. County Road B-2  
Roseville, MN 55113

EVALUATION COMPLETED: April, 1983 by the staff  
and constituents of PREPS, Mississippi State, Mississippi.

COST: \$49.95

ABILITY LEVEL: Grades 4 through 8  
SUBJECT: Science, Health  
TOPIC: Genetics  
MEDIUM OF TRANSFER: 5-1/4 in. flexible disk  
REQUIRED HARDWARE: 32K Apple II Plus, single disk  
drive, color video monitor  
REQUIRED SOFTWARE: Applesoft, DOS 3.3  
INSTRUCTIONAL PURPOSE: Standard instruction,  
enrichment  
INSTRUCTIONAL TECHNIQUES: Drill and practice,  
simulation

DOCUMENTATION AVAILABLE: In program — student's  
instructions. In supplementary materials — suggested  
grade/ability level(s), instructional objectives,  
prerequisite skills or activities, sample program output,  
program operating instructions, post-test, teacher's  
information, student's instructions, student worksheets,  
and follow-up activities.

INSTRUCTIONAL OBJECTIVES: (STATED) Chromy Bug  
— to identify and correctly use the rules for determining  
the parental gene traits that will be transmitted to  
offspring. Blood Typing — to use the following to  
correctly determine the blood type of an offspring: a)  
rules for identifying blood types; b) blood type test  
results; and c) the parents' genotypes.

INSTRUCTIONAL PREREQUISITES: (STATED) For  
Chromy Bug — appropriate after a study of: 1) function

of genes and chromosomes; 2) relationship between  
dominant and recessive genes; 3) mechanism for  
transmitting genes from parent to offspring; and 4) basic  
structure and function of the cell. For Blood Typing —  
appropriate after a study of: 1) blood composition; 2)  
blood typing procedures; 3) how blood types are inherited;  
and 4) use of Punnett Square to determine possible gene  
combinations.

CONTENT AND STRUCTURE: Genetics contains two  
drill and practice/simulation programs. In Chromy Bug,  
students use the rules of dominance to decide which of  
the parent's gene traits will be dominant and will be  
transmitted to the offspring. In Blood Typing, students  
are given the rules for inheriting blood types and  
simulated procedures for typing blood with Anti-A and  
Anti-B serums. The students then identify blood types in  
a simulated hospital laboratory.

POTENTIAL USES: This program is most appropriate for  
use by individual students, by two students working  
together, or by the entire class.

MAJOR STRENGTHS: The activity sheets for reinforcing  
the skills and terminology taught in the program are very  
useful. The content of the program is presented in an  
interesting manner.

MAJOR WEAKNESSES: For some students, the  
activities may be too advanced, and for others, too slow.  
Teachers would have to know their students' capabilities.

OTHER COMMENTS: One evaluator pointed out that the  
package is a bit misleading in that it implies genetic  
codes can be changed. Rather than go back and change  
an existing bug's code, a new bug should be created.

### EVALUATION SUMMARY

SA A D SD NA

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is accurate.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content has educational value.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content is free of stereotypes.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purpose of package is well defined.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Package achieves defined purpose.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content presentation is clear and logical.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Difficulty level is appropriate to audience.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Graphics/sound/color are used appropriately.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Use of package is motivational.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Student creativity is effectively stimulated.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feedback is effectively employed.

SA A D SD NA

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learner controls rate and sequence.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Instruction integrates with prior learning.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Learning can be generalized.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are comprehensive.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User support materials are effective.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Information displays are effective.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Users can operate easily and independently.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Teachers can employ package easily.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Computer capabilities are used appropriately.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Program is reliable in normal use.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicated that they would use or recommend use  
of this package with little or no change.

Summary: Scale from 1 (Low) to 5 (High). Content - 4,  
Instructional Characteristics - 3,  
Technical Characteristics - 3.



## MICROSIFT EVALUATIONS: SUBJECT

SUBJECT	TITLE	PRODUCER	LEVEL	HRDWR.	SET
BASIC LIVING SKILLS	HOME SAFE HOME	MCE, INC.	1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE	1
	INCOME MEETS EXPENSES	MCE, INC.	1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE	1
	JOB READINESS -- ASSESSMENT AND DEVELOPMENT	MCE, INC.	1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE	1
	MONEY MANAGEMENT ASSESSMENT SERIES	MCE, INC.	1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE	1
	POISON PROOF YOUR HOME YOU CAN BANK ON IT	MCE, INC. MCE, INC.	1 2 3 4 5 6 7 8 9 10 11 12 PS 1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE APPLE	1 1
BUSINESS EDUCATION	MASTER TYPE	LIGHTRING SOFTWARE	4 5 6 7 8 9 10 11 12 POST.	APPLE	8
	NUMERIC DATA ENTRY PRACTICE	RADIO SHACK EDUCATION DIVISION	9 10 11 12	TRS-80	4
	TOUCH TYPING	COVE VIEW PRESS SOFTWARE	5 6 7 8 9 10 11 12	TRS-80	4
	TYPING TUTOR	MICROSOFT CONSUMER PRODUCTS	8 9 10 11 12	APPLE	2
CAREER EDUCATION	CAREER SCAN IV	NATIONAL EDUCATIONAL SOFTWARE	6 7 8 9 10 11 12 POST.	APPLE	9
COMPUTER SCIENCE	COMPUTER LITERACY: INTRO. (PLATO)	CONTROL DATA PUBLISHING CO.	6 7 8 9 10 11 12 POST.	APPLE	9
	DISCOVER BASIC	STERLING SWIFT PUBLISHING CO.	7 8 9 10 11 12 POST.	APPLE	6
	KAREL THE ROBOT	CYBERTRONICS INTERNATIONAL INC	9 10 11 12	APPLE	3
	PERSONAL GRAPHICS	LITTLE, BROWN & CO.	9 10 11 12 POST.	APPLE	9
	THE PROGRAMMABLE CUBE	METACOMET SOFTWARE	9 10 11 12 POST.	APPLE	6
LANGUAGE ARTS	ADVERTISING TECHNIQUES	MICRO POWER & LIGHT CO.	5 6 7 8 9 10 11 12	APPLE	9
	ALPHABET KEYBOARD	RANDOM HOUSE, SCHOOL DIVISION	PRE-1 1	TRS-80	3
	ALPINE SKIER	DATA COMMAND	6 7 8	APPLE	8
	ANTONYMS/SYNONYMS	HARTLEY COURSEWARE, INC.	3 4 5 6 7 8	APPLE	5
	BASIC ENGLISH SKILLS	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	6 7 8 9 10 11 12	APPLE	5
	BIG DOOR DEAL	DATA COMMAND	6 - 12	APPLE	9
	BRIDGE TO TERABITHIA	SUNBURST COMMUNICATIONS	5 6 7 8	APPLE	8
	CALL OF THE WILD	A/V CONCEPTS CORPORATION	3 4 5 6 7 8 9 10	APPLE	8
	CARIS	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	PRE-1 1 2 3	APPLE	7
	COMPREHENSION POWER PROGRAM	MILLIKEN PUBLISHING CO. AND I/CT, INC.	4 5 6 7 8 9 10 11 12	APPLE	4
	CONSONANTS/BLENDS	HARTLEY COURSEWARE, INC.	1 2 3	APPLE	5
	CREATE SPELL-IT	HARTLEY COURSEWARE, INC.	PRE-1 1 2 3 4 5 6 7 8 9 10	APPLE	5
	CREATE VOCABULARY	HARTLEY COURSEWARE, INC.	1 2 3 4 5 6 7 8 9 10	APPLE	6
	DIASCRPTIVE READING	EDUCATIONAL ACTIVITIES, INC.	3 4 5 6 7 8	APPLE	8
	EARL'S WORD POWER	GEORGE EARL	4 5 6 7 8 9 10 11 12	APPLE	7
	ENGLISH COMPUTORIALS	EDUCULTURE	10 11 12 POST.	APPLE	4
	ENGLISH, VOLUME 1	NECC	6 7 8	APPLE	8
	FLOPPY TEACHES HOW TO PRINT LETTERS AND NUMERALS	FLOPPY ENTERPRISES	PRE-1 1	APPLE	8



## MICROSIFT EVALUATIONS: SUBJECT

SUBJECT	TITLE	PRODUCER	LEVEL	HRDWR.	SET
	GRAMMAR AND WRITING	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	4 5	APPLE	9
	GRAMMAR PACKAGE I	MICRO LEARNINGWARE	4 5	TRS-80	4
	GRAMMAR PROBLEMS FOR PRACTICE: HOMONYMS	MILLIKEN PUBLISHING COMPANY	3 4 5 6 7 8 9	APPLE	4
	HOMONYMS IN CONTEXT	RANDOM HOUSE, SCHOOL DIVISION	3 4 5 6 7 8 9	APPLE	4
	LETTER RECOGNITION	HARTLEY COURSEWARE, INC.	PRE-1 1	APPLE	5
	MAGIC SPELLS	ADVANCED LEARNING TECHNOLOGY, INC.	1 2 3 4 5 6 7 8	APPLE	5
	MULTIPLE SKILLS	HARTLEY COURSEWARE, INC.	1 2 3	APPLE	6
	NOUNS/PRONOUNS	HARTLEY COURSEWARE, INC.	3 4 5 6	APPLE	5
	OUR WEIRD AND WACKY WORLD/ CRITICAL READING PROGRAM	EDUCATIONAL ACTIVITIES, INC.	2 3 4 5	APPLE	6
	OUR WEIRD AND WACKY WORLD/ LITERAL COMPREHENSION PROGRAM	EDUCATIONAL ACTIVITIES, INC.	3 4 5	APPLE	6
	PHONET	TIES	1 2 3 4 5 6	APPLE	6
	PIK-PEK-PUT	DATA COMMAND	5 6 7 8	APPLE	9
	READING FLIGHT	SCOTT, FORESMAN AND COMPANY	6	TI	7
	READING RALLY	SCOTT, FORESMAN AND COMPANY	5	TI	7
	READING ROUNDUP	SCOTT, FORESMAN AND COMPANY	4	TI	7
	RHYMES AND RIDDLES	SPINNAKER SOFTWARE	PRE-1 1 2 3 4	APPLE	8
	RIDDLE ME THIS	DATA COMMAND	4 5 6 7	APPLE	8
	ROOTS/AFFIXES	HARTLEY COURSEWARE, INC.	3 4 5 6 7 8	APPLE	5
	SENTENCE DIAGRAMMING	AVANT-GARDE CREATIONS	7 8 9 10 11 12	APPLE	4
	SENTENCES	MICRO POWER & LIGHT CO.	5 6 7 8 9 10 11 12	APPLE	4
	SIMS	TIES	1 2 3 4 5 6	APPLE	6
	SPECIAL NEEDS, VOL.1-SPELLING	MECC	2 3 4 5 6	APPLE	9
	SPEED READER	DAVIDSON AND ASSOCIATES	7 8 9 10 11 12	APPLE	5
	SPELLING STRATEGY	BEHAVIORAL ENGINEERING	2 3 4 5 6 7 8	APPLE	5
	STORY MACHINE	SPINNAKER SOFTWARE	PRE-1 1 2 3	APPLE	8
	TANK TACTICS	DATA COMMAND	3 -12	APPLE	9
	TENNIS ANYONE?	DATA COMMAND	4 5 6 7 8	APPLE	8
	THE WESTING GAME	SUNBURST COMMUNICATIONS	5 6 7 8	APPLE	8
	VERB VIPER	DLM, INC.	3 4 5 6	APPLE	9
	VERBS	HARTLEY COURSEWARE, INC.	2 3 4 5	APPLE	5
	VOCABULARY DOLCH	HARTLEY COURSEWARE, INC.	PRE:1 1 2 3	APPLE	5
	VOCABULARY SKILLS: CONTEXT CLUES	MILTON BRADLEY	5 6 7 8 9	APPLE	8
	VOCABULARY SKILLS: PREFIXES, SUFFIXES AND ROOT WORDS	MILTON BRADLEY	6 7 8 9	APPLE	8
	VOWELS	HARTLEY COURSEWARE, INC.	2 3	APPLE	6
	WHO, WHAT, WHERE, WHEN	HARTLEY COURSEWARE, INC.	1 2 3 4 5 6	APPLE	6
	WORD FAMILIES	HARTLEY COURSEWARE, INC.	PRE-1 1 2	APPLE	5
	WORD GAMES	MECC		ATARI	7

## MICROSIFT EVALUATIONS: SUBJECT

SUBJECT	TITLE	PRODUCER	LEVEL	HRDWR.	SET
	WORD INVASION	DLM, INC.	5 6 7 8	APPLE	9
	WORD MASTER	DLM, INC.	4 5 6 7	APPLE	8
	WORD MEMORY PROGRAM	I/CT, INC.	1	APPLE	8
	WORD SEARCH	HARTLEY COURSEWARE, INC.	2 3 4 5 6	APPLE	5
	WORDMAN	DLM, INC.	1 2 3 4 5 6	APPLE	9
	WORDWATCH	INSTANT SOFTWARE, INC.	5 6 7 8 9	TRS-80	4
	WORDWRIGHT	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	4 5 6 7 8 9 10 11 12	APPLE	7
	FRENCH VOCABULARY BUILDER (PLATO)	CONTROL DATA PUBLISHING CO.	7 8 9 10 11 12 POST.	APPLE	9
	GERMAN VOCABULARY BUILDER (PLATO)	CONTROL DATA PUBLISHING CO.	8 - 12	APPLE	9
	LE VOCABULAIRE FRANCAIS	ISLAND SOFTWARE	7 8 9 10 11 12	APPLE	9
LANGUAGES	SPANISH VOCABULARY BUILDER (PLATO)	CONTROL DATA PUBLISHING CO.	8 9 10 11 12	APPLE	9
	THE GERMAN/RUSSIAN HANGMAN	GEORGE EARL	9 10 11 12 P	AP	9
	THE SPANISH HANGMAN	GEORGE EARL	7 8 9 10 11 12	APPLE	4
LIBRARIES	LIBRARY SKILLS: WHAT'S THERE AND HOW TO FIND IT	MICRO POWER & LIGHT CO.	4 5 6 7 8 9 10 11 12	APPLE	2
MATHEMATICS	ADDITION AND SUBTRACTION 1 AND 2	SCOTT, FORESMAN AND COMPANY.	PRE-1 1 2 3	TI	3
	ALIEN ADDITION	DLM, INC.	PRE-1 1 2 3 4 5 6 7 8	APPLE	3
	ALLIGATOR MIX	DLM, INC.	1 2 3 4 5 6 7 8 9	APPLE	4
	APPLE & SURFACE	CONDUIT	11 12 POST.	APPLE	4
	ARITH-MAGIC	QED, INC.	2 3 4 5 6 7 8 9	APPLE	7
	ARITHMETIC OF FUNCTIONS	MATH SOFTWARE	9 10 11 12 POST.	APPLE	2
	ARITHMETIC RACING	MATH SOFTWARE	4 5 6 7 8 9 10 11	APPLE	2
	BINOMIAL MULTIPLICATION	MATH SOFTWARE	8 9 10 11 12	APPLE	2
	BUMBLE GAMES	THE LEARNING COMPANY	PRE-1 1 2 3 4 5	APPLE	7
	BUMBLE PLOT	THE LEARNING COMPANY	3 4 5 6 7 8	APPLE	7
	CLOCK	HARTLEY COURSEWARE, INC.	1 2 3	APPLE	6
	COMPUTER GRAPHING EXPERIMENTS	ADDISON-WESLEY PUBLISHING CO.	10 11 12	APPLE	6
	COMPUTER MATH ACTIVITIES, VOLUME 5	ADDISON-WESLEY PUBLISHING CO.	1 2 3 4 5 6 7 8 9	APPLE	9
	COMPUTER MATH ACTIVITIES, VOLUME 4	ADDISON-WESLEY PUBLISHING CO.	1 2 3 4 5 6 7 8 9	APPLE	7
	COMPUTER MATH ACTIVITIES, VOLUME 3	ADDISON-WESLEY PUBLISHING CO.	1 2 3 4 5 6 7 8 9	APPLE	7
	COMPUTER MATH ACTIVITIES, VOLUME 1	ADDISON-WESLEY PUBLISHING CO.	1 2 3 4 5 6 7 8 9	APPLE	7
	COMPUTER MATH ACTIVITIES,	ADDISON-WESLEY PUBLISHING CO.	1 2 3 4 5 6 7 8 9	APPLE	7

## MICROSIFT EVALUATIONS: SUBJECT

SUBJECT	TITLE	PRODUCER	LEVEL	HWWR.	BET
	VOLUME 2				
COMPUTER MATH GAMES		ADDISON-WESLEY PUBLISHING CO.	1 2 3 4 5 6 7 8 9	APPLE	6
DECIMAL SKILLS		MILTON BRADLEY	5 6 7 8 9	APPLE	8
DECIMALS PRACTICE (PLATO)		CONTROL DATA PUBLISHING CO.	4 5 6 7 8 9	APPLE	9
DIVISION I		SCOTT, FORESMAN AND COMPANY	3 4 5	TI	7
DRAGON MIX		DLM, INC.	3 4 5 6 7	APPLE	7
ELEMENTARY MATH		MECC	4 5 6	APPLE	7
ELEMENTARY MATHEMATICS CLASS- ROOM LEARNING SYSTEM: WHOLE NUMBERS		STERLING SWIFT PUBLISHING CO.	4 5 6 7	APPLE	4
EMSI-6		EDUCATIONAL MICROSYSTEMS, INC.	3 4 5 6 7 8 9	TRS-80	1
ESSENTIAL MATH PROGRAM		RADIO SHACK EDUCATION DIVISION	7 8 9 10 11 12	TRS-80	4
EUCLID GEOMETRY TUTOR		RADIO SHACK EDUCATION DIVISION	9 10 11 12	TRS-80	4
EXPANDED NOTATION		HARTLEY COURSEWARE, INC.	3 4 5	APPLE	6
FACTORING WHOLE NUMBERS		QED, INC.	5 6 7 8 9 10 11 12	APPLE	1
FRACTIONS		QED, INC.	5 6 7 8 9 10 11 12	APPLE	1
FRACTIONS PRACTICE (PLATO)		CONTROL DATA PUBLISHING CO.	4 - 9	APPLE	9
FUNCTION GRAPHER		MATH SOFTWARE	8 9 10 11 12 POST.	APPLE	2
FUNDAMENTAL MATH I, II, III		RANDOM HOUSE, SCHOOL DIVISION	1 2 3 4 5 6 7 8 9	TRS-80	4
INSTRUCTIONAL COMPUTING IN ALGEBRA II		PINELLAS COUNTY SCHOOL SYSTEM	9 10 11 12	APPLE	4
LEMONADE		ATARI PROGRAM EXCHANGE	4 5 6 7 8 9 10 11 12	ATARI	5
LESSONS IN ALGEBRA		GEORGE EARL	7 8 9 10	APPLE	6
LIMACONS AND THEIR AREAS		MATH SOFTWARE	11 12 POST.	APPLE	2
LIMITS OF SEQUENCES		MATH SOFTWARE	11 12 POST.	APPLE	2
MATH CONCEPTS		HARTLEY COURSEWARE, INC.	2 3 4 5 6	APPLE	5
MATH FACTS/NUMBER AND MATH MASTERY A, B, C, AND D		COLORADO CYPHERNETICS, INC.	3 4 5 6	APPLE	6
MATH SEQUENCES		MILLIKEN PUBLISHING COMPANY	1 2 3 4 5 6 7 8	APPLE	2
MATH SKILLS -- ELEMENTARY		ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	2 3 4 5 6	APPLE	6
MATH SKILLS -- JUNIOR HIGH		ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	7 8 9	APPLE	7
MATH STRATEGY		BEHAVIORAL ENGINEERING	2 3 4 5 6 7 8	APPLE	5
MATH STRATEGY: LINEAR SEARCH GAMES		CREATIVE PUBLICATIONS, INC.	5 6 7 8	APPLE	3
MATHEMATICS ASSESSMENT/ PRESCRIPTIVE PROGRAM, LVL. 5-7		READER'S DIGEST SERVICES, INC.	5 6 7	APPLE	8
MATHEMATICS DRILL AND PRACTICE		COMPAK, INC.	1 2 3 4 5 6 7 8	APPLE	2
METRIC DRILL		HARTLEY COURSEWARE, INC.	4 5 6 7 8	APPLE	5
MINUS MISSION		DLM, INC.	1 2 3 4 5 6 7 8 9 10 11 12	APPLE	4
MIXED NUMBERS		MILTON BRADLEY	5 6 7 8 9	APPLE	7
MOPTOWN		THE LEARNING COMPANY	1 2 3 4 5 6 7 8 9 10 11 12	APPLE	7

## MICROSIFT EVALUATIONS: SUBJECT

SUBJECT	TITLE	PRODUCER	LEVEL	HRDWR.	SET
	MORE ALGEBRA: COMP	TYCOM ASSOCIATES	9 10 11 12	PET	4
	MORE ALGEBRA: DISC	TYCOM ASSOCIATES	9 10 11 12	PET	4
	MORE ALGEBRA: QUAD	TYCOM ASSOCIATES	9 10 11 12	PET	4
	MORE ALGEBRA: SIMUL	TYCOM ASSOCIATES	9 10 11 12	PET	4
	MORE ALGEBRA: SLOPE	TYCOM ASSOCIATES	9 10 11 12	PET	4
	NUMBER BLAST	ATARI PROGRAM EXCHANGE	1 2 3 4 5 6 7 8 9 10 11 12	ATARI	4
	NUMBER WORDS, LEVEL 1	HARTLEY COURSEWARE, INC.	2 3 4	APPLE	6
	NUMBER WORDS, LEVEL 2	HARTLEY COURSEWARE, INC.	2 3 4 5	APPLE	6
	PRESCRIPTIVE MATH DRILL	HARTLEY COURSEWARE, INC.	1 2 3 4 5 6 7 8	APPLE	6
	READ AND SOLVE MATH PROBLEMS	EDUCATIONAL ACTIVITIES, INC.	3 4 5 6	APPLE	8
	STICKYBEAR NUMBERS	XEROX EDUCATION PUBLICATIONS	PRE-1 1	APPLE	9
	TEASERS BY TEBBS	SUNBURST COMMUNICATIONS	3 4 5 6 7 8 9 10 11 12	APPLE	8
	THE ARITHMETIC CLASSROOM: FRACTIONS/ADD AND SUBTRACT	STERLING SWIFT PUBLISHING CO.	4 5 6 7 8	APPLE	5
	THE ARITHMETIC CLASSROOM: DECIMALS	STERLING SWIFT PUBLISHING CO.	4 5 6 7 8	APPLE	5
	WHOLE NUMBERS PRACTICE (PLATO)	CONTROL DATA PUBLISHING CO.	5 6 7 8	APPLE	9
MISC.	FACEMAKER	SPINNAKER SOFTWARE	PRE-1 1 2 3	APPLE	8
	KRELL'S COLLEGE BOARD SAT	KRELL SOFTWARE CORPORATION	9 10 11 12	APPLE	7
MUSIC	KEYBOARD ORGAN	ATARI PROGRAM EXCHANGE	4 5 6 7 8 9 10 11 12	ATARI	5
PHYSICAL EDUCATION	SPORTS STATS	TIES		APPLE	9
PROBLEM SOLVING	CHECKERS	ODESTA	4 5 6 7 8 9 10 11 12 POST.	APPLE	6
	CHESS	ODESTA	4 5 6 7 8 9 10 11 12 POST.	APPLE	6
	MIND BENDERS, A3	MIDWEST PUBLICATIONS	4 5 6 7 8 9 10 11 12 POST.	APPLE	9
	MIND BENDERS, B1	MIDWEST PUBLICATIONS	4 5 6 7 8 9 10 11 12 POST.	APPLE	9
	ODIN	ODESTA	4 5 6 7 8 9 10 11 12 POST.	APPLE	6
	THE FACTORY	SUNBURST COMMUNICATIONS	4 5 6 7 8 9 10 11 12	ATARI	9
SCHOOL READINESS	JUGGLES' RAINBOW	THE LEARNING COMPANY	PRE-1 1	APPLE	6
	MY FIRST ALPHABET	ATARI, INC.	PRE-1 1	ATARI	4
SCIENCES	BIOLOGY: THE CELL	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	10 11 12	APPLE	9
	CHEMISTRY -- ACIDS AND BASES	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	10 11 12 POST.	APPLE	7
	CIRCULATION (ORGANS)	MICRO POWER & LIGHT CO.	5 6 7 8 9 10 11 12	APPLE	2
	COMPUTER SIMULATED PHYSICS EXPERIMENTS	EDUTECH	11 12 POST.	APPLE	4
	ENERGY CZAR	ATARI, INC.	7 8 9 10 11 12	ATARI	4
	EYOLUT	CONDUIT	11 12 POST.	APPLE	4
	GENETICS	TIES	4 5 6 7 8	AP	9
	MILLIKAN	MENTOR SOFTWARE, INC.	11 12 POST.	APPLE	4
	NEWTON	CONDUIT	11 12 POST.	APPLE	4
	ODELL LAKE	MECC	4 5 6 7 8 9 10	APPLE	2
	PHYSICS: ELEMENTARY MECHANICS	CONTROL DATA PUBLISHING CO.	9 10 11 12	APPLE	9

## MICROSIFT EVALUATIONS: SUBJECT

SUBJECT	TITLE	PRODUCER	LEVEL	HRDWR.	SET
	(PLATO)				
	PRECISION TIMER	VERNIER SOFTWARE	10 11 12 POST.	APPLE	7
	ROCKY'S BOOTS	THE LEARNING COMPANY	3 4 5 6 7 8 9 10 11 12 POST.	APPLE	6
	THE ATOM	MICRO-ED, INC.	6 7 8 9 10	APPLE	6
	THREE MILE ISLAND	MUSE SOFTWARE	12 POST.	APPLE	6
	TITRATION	MENTOR SOFTWARE, INC.	10 11 12 POST.	APPLE	4
	VOLCANOES	EARTHWARE COMPUTER SERVICES	9 10 11 12 POST.	APPLE	3
SOCIAL STUDIES	CARTELS AND CUTTHROATS	STRATEGIC SIMULATIONS, INC.	8 9 10 11 12	APPLE	8
	DEMO-GRAPHICS	CONDUIT	8 9 10 11 12	APPLE	4
	ELEMENTARY, VOLUME 6 -- SOCIAL STUDIES	MECC	3 4 5 6 7 8	APPLE	8
	GEOGRAPHY	MECC	4 5 6 7 8 9 10	ATARI	7
	GEOGRAPHY EXPLORER: USA	INSTANT SOFTWARE, INC.	4 5 6 7 8 9 10 11	TRS-80	1
	MAP READING	MICRO POWER & LIGHT CO.	4 5 6 7	APPLE	8
	PRESIDENT ELECT	STRATEGIC SIMULATIONS, INC.	5 6 7 8 9 10	APPLE	8
	SOCIAL STUDIES, VOLUME 2	MECC	4 5 6 7 8 9 10 11 12	APPLE	8
	THE DECISION SHOP	THE CHILDREN'S MUSEUM OF INDIANAPOLIS	4 5 6 7 8	APPLE	7
	THE EXPLORING AMERICA SERIES	AQUARIUS	7 8 9 10	APPLE	9
	THE MARKET PLACE	MECC	3 4 5 6 7 8	ATARI	7
TEACHER UTILITY	CREATE FILL-IN-THE-BLANKS	HARTLEY COURSEWARE, INC.	PRE-1 1 2 3 4 5 6	APPLE	5
	CREATE SKILLS--ELEMENTARY/INTERMEDIATE	HARTLEY COURSEWARE, INC.	1 2 3 4 5 6 7 8	APPLE	5
	EASY GRADER	ATARI PROGRAM EXCHANGE	1 2 3 4 5 6 7 8 9 10 11 12	ATARI	5
	THE SHELL GAMES EDUCATION SERIES	APPLE COMPUTER, INC.	4 5 6 7 8 9 10 11 12	APPLE	1
	THE WIZARD	PROGRAMS UNLIMITED	4 5 6 7 8 9 10 11 12	TRS-80	3
TESTING	TEST BANK	ADVANCED TECHNOLOGY APPLICATIONS	1 2 3 4 5 6 7 8 9 10 11 12	TRS-80	1 5
VOCATIONAL EDUCATION	CAREER DIRECTIONS	SYSTEMS DESIGN ASSOCIATES	11 12 POST.	APPLE	8

# MICROSIFT EVALUATIONS: TITLE

TITLE	PRODUCER	SUBJECT	LEVEL	HRDWR.	SET
ADDITION AND SUBTRACTION 1 AND 2	SCOTT, FORESMAN AND COMPANY	MATHEMATICS	PRE-1 1 2 3	TI	3
ADVERTISING TECHNIQUES	MICRO POWER & LIGHT CO.	LANGUAGE ARTS	5 6 7 8 9 10 11 12	APPLE	9
ALIEN ADDITION	DLM, INC.	MATHEMATICS	PRE-1 1 2 3 4 5 6 7 8	APPLE	3
ALLIGATOR MIX	DLM, INC.	MATHEMATICS	1 2 3 4 5 6 7 8 9	APPLE	4
ALPHABET KEYBOARD	RANDOM HOUSE, SCHOOL DIVISION	LANGUAGE ARTS	PRE-1 1	TRS-80	3
ALPINE SKIER	DATA COMMAND	LANGUAGE ARTS	6 7 8	APPLE	8
ANTONYMS/SYNONYMS	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	3 4 5 6 7 8	APPLE	5
APPLE & SURFACE	CONDUIT	MATHEMATICS	11 12 POST.	APPLE	4
ARITH-MAGIC	QED, INC.	MATHEMATICS	2 3 4 5 6 7 8 9	APPLE	7
ARITHMETIC OF FUNCTIONS	MATH SOFTWARE	MATHEMATICS	9 10 11 12 POST.	APPLE	2
ARITHMETIC RACING	MATH SOFTWARE	MATHEMATICS	4 5 6 7 8 9 10 11	APPLE	2
BASIC ENGLISH SKILLS	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	LANGUAGE ARTS	6 7 8 9 10 11 12	APPLE	5
BIG DOOR DEAL	DATA COMMAND	LANGUAGE ARTS	6 - 12	APPLE	9
BINOMIAL MULTIPLICATION	MATH SOFTWARE	MATHEMATICS	8 9 10 11 12	APPLE	2
BIOLOGY: THE CELL	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	SCIENCES	10 11 12	APPLE	9
BRIDGE TO TERABITHIA	SUNBURST COMMUNICATIONS	LANGUAGE ARTS	5 6 7 8	APPLE	8
BUMBLE GAMES	THE LEARNING COMPANY	MATHEMATICS	PRE-1 1 2 3 4 5	APPLE	7
BUMBLE PLOT	THE LEARNING COMPANY	MATHEMATICS	3 4 5 6 7 8	APPLE	7
CALL OF THE WILD	A/V CONCEPTS CORPORATION	LANGUAGE ARTS	3 4 5 6 7 8 9 10	APPLE	8
CAREER DIRECTIONS	SYSTEMS DESIGN ASSOCIATES	VOCATIONAL EDUCATION	11 12 POST.	APPLE	8
CAREER SCAN IV	NATIONAL EDUCATIONAL SOFTWARE	CAREER EDUCATION	6 7 8 9 10 11 12 POST.	APPLE	9
CARIS	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	LANGUAGE ARTS	PRE-1 1 2 3	APPLE	7
CARTELS AND CUTTHROATS	STRATEGIC SIMULATIONS, INC.	SOCIAL STUDIES	8 9 10 11 12	APPLE	8
CHECKERS	ODESTA	PROBLEM SOLVING	4 5 6 7 8 9 10 11 12 POST.	APPLE	6
CHEMISTRY -- ACIDS AND BASES	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	SCIENCES	10 11 12 POST.	APPLE	7
CHESS	ODESTA	PROBLEM SOLVING	4 5 6 7 8 9 10 11 12 POST.	APPLE	6
CIRCULATION (ORGANS)	MICRO POWER & LIGHT CO.	SCIENCES	5 6 7 8 9 10 11 12	APPLE	2
CLOCK	HARTLEY COURSEWARE, INC.	MATHEMATICS	1 2 3	APPLE	6
COMPREHENSION POWER PROGRAM	MILLIKEN PUBLISHING CO. AND I/CT, INC.	LANGUAGE ARTS	4 5 6 7 8 9 10 11 12	APPLE	4
COMPUTER GRAPHING EXPERIMENTS	ADDISON-WESLEY PUBLISHING CO.	MATHEMATICS	10 11 12	APPLE	6
COMPUTER LITERACY: INTRO. (PLATO)	CONTROL DATA PUBLISHING CO.	COMPUTER SCIENCE	6 7 8 9 10 11 12 POST.	APPLE	9
COMPUTER MATH ACTIVITIES, VOLUME 5	ADDISON-WESLEY PUBLISHING CO.	MATHEMATICS	1 2 3 4 5 6 7 8 9	APPLE	9
COMPUTER MATH ACTIVITIES,	ADDISON-WESLEY PUBLISHING CO.	MATHEMATICS	1 2 3 4 5 6 7 8 9	APPLE	7



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TITLE	PRODUCER	SUBJECT	LEVEL	HRDWR.	SET
VOLUME 4					
COMPUTER MATH ACTIVITIES, VOLUME 2	ADDISON-WESLEY PUBLISHING CO.	MATHEMATICS	1 2 3 4 5 6 7 8 9	APPLE	7
COMPUTER MATH ACTIVITIES, VOLUME 3	ADDISON-WESLEY PUBLISHING CO.	MATHEMATICS	1 2 3 4 5 6 7 8 9	APPLE	7
COMPUTER MATH ACTIVITIES, VOLUME 1	ADDISON-WESLEY PUBLISHING CO.	MATHEMATICS	1 2 3 4 5 6 7 8 9	APPLE	7
COMPUTER MATH GAMES	ADDISON-WESLEY PUBLISHING CO.	MATHEMATICS	1 2 3 4 5 6 7 8 9	APPLE	6
COMPUTER SIMULATED PHYSICS EXPERIMENTS	EDUTECH	SCIENCES	11 12 POST.	APPLE	4
CONSONANTS/BLENDS	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	1 2 3	APPLE	5
CREATE FILL-IN-THE-BLANKS	HARTLEY COURSEWARE, INC.	TEACHER UTILITY	PRE-1 1 2 3 4 5 6	APPLE	5
CREATE SKILLS--ELEMENTARY/ INTERMEDIATE	HARTLEY COURSEWARE, INC.	TEACHER UTILITY	1 2 3 4 5 6 7 8	APPLE	5
CREATE SPELL-IT	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	PRE-1 1 2 3 4 5 6 7 8 9 10	APPLE	5
CREATE VOCABULARY	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	1 2 3 4 5 6 7 8 9 10	APPLE	6
DECIMAL SKILLS	MILTON BRADLEY	MATHEMATICS	5 6 7 8 9	APPLE	8
DECIMALS PRACTICE (PLATO)	CONTROL DATA PUBLISHING CO.	MATHEMATICS	4 5 6 7 8 9	APPLE	9
DEMO-GRAPHICS	CONDUIT	SOCIAL STUDIES	8 9 10 11 12	APPLE	4
DIASCRPTIVE READING	EDUCATIONAL ACTIVITIES, INC.	LANGUAGE ARTS	3 4 5 6 7 8	APPLE	8
DISCOVER BASIC	STERLING SWIFT PUBLISHING CO.	COMPUTER SCIENCE	7 8 9 10 11 12 POST.	APPLE	6
DIVISION 1	SCOTT, FORESMAN AND COMPANY	MATHEMATICS	3 4 5	TI	7
DRAGON MIX	DLM, INC.	MATHEMATICS	3 4 5 6 7	APPLE	7
EARL'S WORD POWER	GEORGE EARL	LANGUAGE ARTS	4 5 6 7 8 9 10 11 12	APPLE	7
EASY GRADER	ATARI PROGRAM EXCHANGE	TEACHER UTILITY	1 2 3 4 5 6 7 8 9 10 11 12	ATARI	5
ELEMENTARY MATH	MECC	MATHEMATICS	4 5 6	APPLE	7
ELEMENTARY MATHEMATICS CLASS- ROOM LEARNING SYSTEM: WHOLE NUMBERS	STERLING SWIFT PUBLISHING CO.	MATHEMATICS	4 5 6 7	APPLE	4
ELEMENTARY, VOLUME 6 -- SOCIAL STUDIES	MECC	SOCIAL STUDIES	3 4 5 6 7 8	APPLE	8
EMS1-6	EDUCATIONAL MICROSYSTEMS, INC.	MATHEMATICS	3 4 5 6 7 8 9	TRS-80	1
ENERGY CZAR	ATARI, INC.	SCIENCES	7 8 9 10 11 12	ATARI	4
ENGLISH COMPUTORIALS	EDUCULTURE	LANGUAGE ARTS	10 11 12 POST.	APPLE	4
ENGLISH, VOLUME 1	MECC	LANGUAGE ARTS	6 7 8	APPLE	8
ESSENTIAL MATH PROGRAM	RADIO SHACK EDUCATION DIVISION	MATHEMATICS	7 8 9 10 11 12	TRS-80	4
EUCLID GEOMETRY TUTOR	RADIO SHACK EDUCATION DIVISION	MATHEMATICS	9 10 11 12	TRS-80	4
EVOLUT	CONDUIT	SCIENCES	11 12 POST.	APPLE	4
EXPANDED NOTATION	HARTLEY COURSEWARE, INC.	MATHEMATICS	3 4 5	APPLE	6
FACEMAKER	SPINNAKER SOFTWARE	MISC.	PRE-1 1 2 3	APPLE	8
FACTORIZING WHOLE NUMBERS	QED, INC.	MATHEMATICS	5 6 7 8 9 10 11 12	APPLE	1
FLOPPY TEACHES HOW TO PRINT LETTERS AND NUMERALS	FLOPPY ENTERPRISES	LANGUAGE ARTS	PRE-1 1	APPLE	8

## MICROSIFT EVALUATIONS: TITLE

TITLE	PRODUCER	SUBJECT	LEVEL	HRDWR.	SET
FRACTIONS	QED, INC.	MATHEMATICS	5 6 7 8 9 10 11 12	APPLE	1
FRACTIONS PRACTICE (PLATO)	CONTROL DATA PUBLISHING CO.	MATHEMATICS	4 - 9	APPLE	9
FRENCH VOCABULARY BUILDER (PLATO)	CONTROL DATA PUBLISHING CO.	LANGUAGES	7 8 9 10 11 12 POST.	APPLE	9
FUNCTION GRAPHER	MATH SOFTWARE	MATHEMATICS	8 9 10 11 12 POST.	APPLE	2
FUNDAMENTAL MATH I, II, III	RANDOM HOUSE, SCHOOL DIVISION	MATHEMATICS	1 2 3 4 5 6 7 8 9	TRS-80	4
GENETICS	TIES	SCIENCES	4 5 6 7 8	AP	9
GEOGRAPHY	MECC	SOCIAL STUDIES	4 5 6 7 8 9 10	ATARI	7
GEOGRAPHY EXPLORER: USA	INSTANT SOFTWARE, INC.	SOCIAL STUDIES	4 5 6 7 8 9 10 11	TRS-80	1
GERMAN VOCABULARY BUILDER (PLATO)	CONTROL DATA PUBLISHING CO.	LANGUAGES	8 - 12	APPLE	9
GRAMMAR AND WRITING	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	LANGUAGE ARTS	4 5	APPLE	9
GRAMMAR PACKAGE 1	MICRO LEARNINGWARE	LANGUAGE ARTS	4 5	TRS-80	4
GRAMMAR PROBLEMS FOR PRACTICE: HOMONYMS	MILLIKEN PUBLISHING COMPANY	LANGUAGE ARTS	3 4 5 6 7 8 9	APPLE	4
HOME SAFE HOME	MCE, INC.	BASIC LIVING SKILLS	1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE	1
HOMONYMS IN CONTEXT	RANDOM HOUSE, SCHOOL DIVISION	LANGUAGE ARTS	3 4 5 6 7 8 9	APPLE	4
INCOME MEETS EXPENSES	MCE, INC.	BASIC LIVING SKILLS	1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE	1
INSTRUCTIONAL COMPUTING IN ALGEBRA II	PINELLAS COUNTY SCHOOL SYSTEM	MATHEMATICS	9 10 11 12	APPLE	4
JOB READINESS -- ASSESSMENT AND DEVELOPMENT	MCE, INC.	BASIC LIVING SKILLS	1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE	1
JUGGLES' RAINBOW	THE LEARNING COMPANY	SCHOOL READINESS	PRE-1 1	APPLE	6
KAREL THE ROBOT	CYBERTRONICS INTERNATIONAL INC	COMPUTER SCIENCE	9 10 11 12	APPLE	3
KEYBOARD ORGAN	ATARI PROGRAM EXCHANGE	MUSIC	4 5 6 7 8 9 10 11 12	ATARI	5
KRELL'S COLLEGE BOARD SAT	KRELL SOFTWARE CORPORATION	MISC.	9 10 11 12	APPLE	7
LE VOCABULAIRE FRANCAIS	ISLAND SOFTWARE	LANGUAGES	7 8 9 10 11 12	APPLE	9
LEMONADE	ATARI PROGRAM EXCHANGE	MATHEMATICS	4 5 6 7 8 9 10 11 12	ATARI	5
LESSONS IN ALGEBRA	GEORGE EARL	MATHEMATICS	7 8 9 10	APPLE	6
LETTER RECOGNITION	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	PRE-1 1	APPLE	5
LIBRARY SKILLS: WHAT'S THERE AND HOW TO FIND IT	MICRO POWER & LIGHT CO.	LIBRARIES	4 5 6 7 8 9 10 11 12	APPLE	2
LIMAONS AND THEIR AREAS	MATH SOFTWARE	MATHEMATICS	11 12 POST.	APPLE	2
LIMITS OF SEQUENCES	MATH SOFTWARE	MATHEMATICS	11 12 POST.	APPLE	2
MAGIC SPELLS	ADVANCED LEARNING TECHNOLOGY, INC.	LANGUAGE ARTS	1 2 3 4 5 6 7 8	APPLE	5
MAP READING	MICRO POWER & LIGHT CO.	SOCIAL STUDIES	4 5 6 7	APPLE	8
MASTER TYPE	LIGHTNING SOFTWARE	BUSINESS EDUCATION	4 5 6 7 8 9 10 11 12 POST.	APPLE	8
MATH CONCEPTS	HARTLEY COURSEWARE, INC.	MATHEMATICS	2 3 4 5 6	APPLE	5
FACTS/NUMBER AND MATH	COLORADO CYBERNETICS, INC.	MATHEMATICS	3 4 5 6	APPLE	6

## MICROSIFT EVALUATIONS: TITLE

TITLE	PRODUCER	SUBJECT	LEVEL	HRDWR.	SET
MASTERY A, B, C, AND D					
MATH SEQUENCES	MILLIKEN PUBLISHING COMPANY	MATHEMATICS	1 2 3 4 5 6 7 8	APPLE	2
MATH SKILLS -- ELEMENTARY	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	MATHEMATICS	2 3 4 5 6	APPLE	6
MATH SKILLS -- JUNIOR HIGH	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	MATHEMATICS	7 8 9	APPLE	7
MATH STRATEGY	BEHAVIORAL ENGINEERING	MATHEMATICS	2 3 4 5 6 7 8	APPLE	5
MATH STRATEGY: LINEAR SEARCH GAMES	CREATIVE PUBLICATIONS, INC.	MATHEMATICS	5 6 7 8	APPLE	3
MATHEMATICS ASSESSMENT/ PRESCRIPTIVE PROGRAM, LVL. 5-7	READER'S DIGEST SERVICES, INC.	MATHEMATICS	5 6 7	APPLE	8
MATHEMATICS DRILL AND PRACTICE	COMPAK, INC.	MATHEMATICS	1 2 3 4 5 6 7 8	APPLE	2
METRIC DRILL	HARTLEY COURSEWARE, INC.	MATHEMATICS	4 5 6 7 8	APPLE	5
MILLIKAN	MENTOR SOFTWARE, INC.	SCIENCES	11 12 POST.	APPLE	4
MIND BENDERS, A3	MIDWEST PUBLICATIONS	PROBLEM SOLVING	4 5 6 7 8 9 10 11 12 POST.	APPLE	9
MIND BENDERS, B1	MIDWEST PUBLICATIONS	PROBLEM SOLVING	4 5 6 7 8 9 10 11 12 POST.	APPLE	9
MINUS MISSION	DLM, INC.	MATHEMATICS	1 2 3 4 5 6 7 8 9 10 11 12	APPLE	4
MIXED NUMBERS	MILTON BRADLEY	MATHEMATICS	5 6 7 8 9	APPLE	7
MONEY MANAGEMENT ASSESSMENT SERIES	MCE, INC.	BASIC LIVING SKILLS	1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE	1
MOPTOWN	THE LEARNING COMPANY	MATHEMATICS	1 2 3 4 5 6 7 8 9 10 11 12	APPLE	7
MORE ALGEBRA: COMP	TYCOM ASSOCIATES	MATHEMATICS	9 10 11 12	PET	4
MORE ALGEBRA: DISC	TYCOM ASSOCIATES	MATHEMATICS	9 10 11 12	PET	4
MORE ALGEBRA: QUAD	TYCOM ASSOCIATES	MATHEMATICS	9 10 11 12	PET	4
MORE ALGEBRA: SIMUL	TYCOM ASSOCIATES	MATHEMATICS	9 10 11 12	PET	4
MORE ALGEBRA: SLOPE	TYCOM ASSOCIATES	MATHEMATICS	9 10 11 12	PET	4
MULTIPLE SKILLS	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	1 2 3	APPLE	6
MY FIRST ALPHABET	ATARI, INC.	SCHOOL READINESS	PRE-1 1	ATARI	4
NEWTON	CONDUIT	SCIENCES	11 12 POST.	APPLE	4
NOUNS/PRONOUNS	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	3 4 5 6	APPLE	5
NUMBER BLAST	ATARI PROGRAM EXCHANGE	MATHEMATICS	1 2 3 4 5 6 7 8 9 10 11 12	ATARI	4
NUMBER WORDS, LEVEL 1	HARTLEY COURSEWARE, INC.	MATHEMATICS	2 3 4	APPLE	6
NUMBER WORDS, LEVEL 2	HARTLEY COURSEWARE, INC.	MATHEMATICS	2 3 4 5	APPLE	6
NUMERIC DATA ENTRY PRACTICE	RADIO SHACK EDUCATION DIVISION	BUSINESS EDUCATION	9 10 11 12	TRS-80	4
ODELL LAKE	MECC	SCIENCES	4 5 6 7 8 9 10	APPLE	2
ODIN	ODESTA	PROBLEM SOLVING	4 5 6 7 8 9 10 11 12 POST.	APPLE	6
OUR WEIRD AND WACKY WORLD/ CRITICAL READING PROGRAM	EDUCATIONAL ACTIVITIES, INC.	LANGUAGE ARTS	2 3 4 5	APPLE	6
OUR WEIRD AND WACKY WORLD/ LITERAL COMPREHENSION PROGRAM	EDUCATIONAL ACTIVITIES, INC.	LANGUAGE ARTS	3 4 5	APPLE	6
PERSONAL GRAPHICS	LITTLE, BROWN & CO.	COMPUTER SCIENCE	9 10 11 12 POST.	APPLE	9
PHONET	TIES	LANGUAGE ARTS	1 2 3 4 5 6	APPLE	6

ICS: ELEMENTARY MECHANICS

CONTROL DATA PUBLISHING CO.

SCIENCES

9 10 11 12

APPLE 9

## MICROSIFT EVALUATIONS: TITLE-

TITLE	PRODUCER	SUBJECT	LEVEL	HRDWR.	SET
(PLATO)					
PIK-PEK-PUT	DATA COMMAND	LANGUAGE ARTS	5 6 7 8	APPLE	9
POISON PROOF YOUR HOME	MCE, INC.	BASIC LIVING SKILLS	1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE	1
PRECISION TIMER	VERNIER SOFTWARE	SCIENCES	10 11 12 POST.	APPLE	7
PREScriptive MATH DRILL	HARTLEY COURSEWARE, INC.	MATHEMATICS	1 2 3 4 5 6 7 8	APPLE	6
PRESIDENT ELECT	STRATEGIC SIMULATIONS, INC.	SOCIAL STUDIES	5 6 7 8 9 10	APPLE	8
READ AND SOLVE MATH PROBLEMS	EDUCATIONAL ACTIVITIES, INC.	MATHEMATICS	3 4 5 6	APPLE	8
READING FLIGHT	SCOTT, FORESMAN AND COMPANY	LANGUAGE ARTS	6	TI	7
READING RALLY	SCOTT, FORESMAN AND COMPANY	LANGUAGE ARTS	5	TI	7
READING ROUNDUP	SCOTT, FORESMAN AND COMPANY	LANGUAGE ARTS	4	TI	7
RHYMES AND RIDDLES	SPINNAKER SOFTWARE	LANGUAGE ARTS	PRE-1 1 2 3 4	APPLE	8
RIDDLE ME THIS	DATA COMMAND	LANGUAGE ARTS	4 5 6 7	APPLE	8
ROCKY'S BOOTS	THE LEARNING COMPANY	SCIENCES	3 4 5 6 7 8 9 10 11 12 POST.	APPLE	6
ROOTS/AFFIXES	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	3 4 5 6 7 8	APPLE	5
SENTENCE DIAGRAMMING	AVANT-GARDE CREATIONS	LANGUAGE ARTS	7 8 9 10 11 12	APPLE	4
SENTENCES	MICRO POWER & LIGHT CO.	LANGUAGE ARTS	5 6 7 8 9 10 11 12	APPLE	4
SIMS	TIES	LANGUAGE ARTS	1 2 3 4 5 6	APPLE	6
SOCIAL STUDIES, VOLUME 2	MECC	SOCIAL STUDIES	4 5 6 7 8 9 10 11 12	APPLE	8
SPANISH VOCABULARY BUILDER (PLATO)	CONTROL DATA PUBLISHING CO.	LANGUAGES	8 9 10 11 12	APPLE	9
SPECIAL NEEDS, VOL.1-SPELLING	MECC	LANGUAGE ARTS	2 3 4 5 6	APPLE	9
SPEED READER	DAVIDSON AND ASSOCIATES	LANGUAGE ARTS	7 8 9 10 11 12	APPLE	5
SPELLING STRATEGY	BEHAVIORAL ENGINEERING	LANGUAGE ARTS	2 3 4 5 6 7 8	APPLE	5
SPORTS STATS	TIES	PHYSICAL EDUCATION		APPLE	9
STICKYBEAR NUMBERS	XEROX EDUCATION PUBLICATIONS	MATHEMATICS	PRE-1 1	APPLE	9
STORY MACHINE	SPINNAKER SOFTWARE	LANGUAGE ARTS	PRE-1 1 2 3	APPLE	8
TANK TACTICS	DATA COMMAND	LANGUAGE ARTS	3 - 12	APPLE	9
TEASERS BY TOBBS	SUNBURST COMMUNICATIONS	MATHEMATICS	3 4 5 6 7 8 9 10 11 12	APPLE	8
TENNIS ANYONE?	DATA COMMAND	LANGUAGE ARTS	4 5 6 7 8	APPLE	8
TEST BANK	ADVANCED TECHNOLOGY APPLICATIONS	TESTING	1 2 3 4 5 6 7 8 9 10 11 12	TRS-80	1 5
THE ARITHMETIC CLASSROOM: FRACTIONS/ADD AND SUBTRACT	STERLING SWIFT PUBLISHING CO.	MATHEMATICS	4 5 6 7 8	APPLE	5
THE ARITHMETIC CLASSROOM: DECIMALS	STERLING SWIFT PUBLISHING CO.	MATHEMATICS	4 5 6 7 8	APPLE	5
THE ATOM	MICRO-ED, INC.	SCIENCES	6 7 8 9 10	APPLE	6
THE DECISION SHOP	THE CHILDREN'S MUSEUM OF INDIANAPOLIS	SOCIAL STUDIES	4 5 6 7 8	APPLE	7
THE EXPLORING AMERICA SERIES	AQUARIUS	SOCIAL STUDIES	7 8 9 10	APPLE	9
THE FACTORY	SUNBURST COMMUNICATIONS	PROBLEM SOLVING	4 5 6 7 8 9 10 11 12	ATARI	9
THE GERMAN/RUSSIAN HANGMAN	GEORGE EARL	LANGUAGES	9 10 11 12 P	AP	9
THE MARKET PLACE	MECC	SOCIAL STUDIES	3 4 5 6 7 8	ATARI	7
THE PROGRAMMABLE CUBE	METACOMET SOFTWARE	COMPUTER SCIENCE	9 10 11 12 POST.	APPLE	6
THE SHELL GAMES EDUCATION SERIES	APPLE COMPUTER, INC.	TEACHER UTILITY	4 5 6 7 8 9 10 11 12	APPLE	1

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TITLE	PRODUCER	SUBJECT	LEVEL	HRDWR.	SET
THE SPANISH HANGMAN	GEORGE EARL	LANGUAGES	7 8 9 10 11 12	APPLE	4
THE WESTING GAME	SUNBURST COMMUNICATIONS	LANGUAGE ARTS	5 6 7 8	APPLE	8
THE WIZARD	PROGRAMS UNLIMITED	TEACHER UTILITY	4 5 6 7 8 9 10 11 12	TRS-80	3
THREE MILE ISLAND	MUSE SOFTWARE	SCIENCES	12 POST.	APPLE	6
TITRATION	MENTOR SOFTWARE, INC.	SCIENCES	10 11 12 POST.	APPLE	4
TOUCH TYPING	COVE VIEW PRESS SOFTWARE	BUSINESS EDUCATION	5 6 7 8 9 10 11 12	TRS-80	4
TYPING TUTOR	MICROSOFT CONSUMER PRODUCTS	BUSINESS EDUCATION	8 9 10 11 12	APPLE	2
VERB VIPER	DLM, INC.	LANGUAGE ARTS	3 4 5 6	APPLE	9
VERBS	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	2 3 4 5	APPLE	5
VOCABULARY DOLCH	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	PRE: 1 1 2 3	APPLE	5
VOCABULARY SKILLS: CONTEXT CLUES	MILTON BRADLEY	LANGUAGE ARTS	5 6 7 8 9	APPLE	8
VOCABULARY SKILLS: PREFIXES, SUFFIXES AND ROOT WORDS	MILTON BRADLEY	LANGUAGE ARTS	6 7 8 9	APPLE	8
VOLCANOES	EARTHWARE COMPUTER SERVICES	SCIENCES	9 10 11 12 POST.	APPLE	3
VOWELS	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	2 3	APPLE	6
WHO, WHAT, WHERE, WHEN	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	1 2 3 4 5 6	APPLE	6
WHOLE NUMBERS PRACTICE (PLATO)	CONTROL DATA PUBLISHING CO.	MATHEMATICS	5 6 7 8	APPLE	9
WORD FAMILIES	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	PRE-1 1 2	APPLE	5
WORD GAMES	MECC	LANGUAGE ARTS		ATARI	7
WORD INVASION	DLM, INC.	LANGUAGE ARTS	5 6 7 8	APPLE	9
WORD MASTER	DLM, INC.	LANGUAGE ARTS	4 5 6 7	APPLE	8
WORD MEMORY PROGRAM	I/CT, INC.	LANGUAGE ARTS	1	APPLE	8
WORD SEARCH	HARTLEY COURSEWARE, INC.	LANGUAGE ARTS	2 3 4 5 6	APPLE	5
WORDMAN	DLM, INC.	LANGUAGE ARTS	1 2 3 4 5 6	APPLE	9
WORDWATCH	INSTANT SOFTWARE, INC.	LANGUAGE ARTS	5 6 7 8 9	TRS-80	4
WORDWRIGHT	ENCYCLOPEDIA BRITANNICA EDUCATIONAL CORP.	LANGUAGE ARTS	4 5 6 7 8 9 10 11 12	APPLE	7
YOU CAN BANK ON IT	NCE, INC.	BASIC LIVING SKILLS	1 2 3 4 5 6 7 8 9 10 11 12 PS	APPLE	1